



ANNOUNCEMENT  
*of the*  
SUMMER SESSION

*July 6th to August 14th*  
1959

*University of Alberta*  
*Edmonton*

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## Important Information

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### **SUMMER INSTITUTE FOR MODERN MATHEMATICS**

In cooperation with the Canadian Mathematical Congress and the Alberta Department of Education, the University will conduct a Summer Institute for Modern Mathematics coincident with the Summer Session. Two courses carrying University credit will be offered. Registration will be limited. Generous financial assistance will be available for those selected to take the courses.

### **SUMMER SCHOOL OF LINGUISTICS**

The University will again conduct a Summer School of Linguistics as part of the 1959 Summer Session. A program of eleven courses, all carrying University credit, will be offered.

### **CHANGE IN STATUS OF BEGINNERS' COURSES IN LANGUAGES**

Instruction time in French 1, German 1, Latin 1, Russian 1, and Ukrainian 1 has been increased from ten to fifteen hours per week. Henceforth, students who take those courses in the Summer Session will receive full credit for them without being required to take a sequent course.

### **SUMMER SESSION BURSARIES**

The Department of Education is again providing bursaries, each of \$100, payable under certain conditions, to teachers who attend the 1959 Summer Session for the purpose of improving their qualifications for teaching in the senior high school.

More detailed information concerning the above matters will be found in the appropriate sections of this Announcement.

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*A directory of important University administrative offices will be found on the inside of the back cover of this Announcement.*

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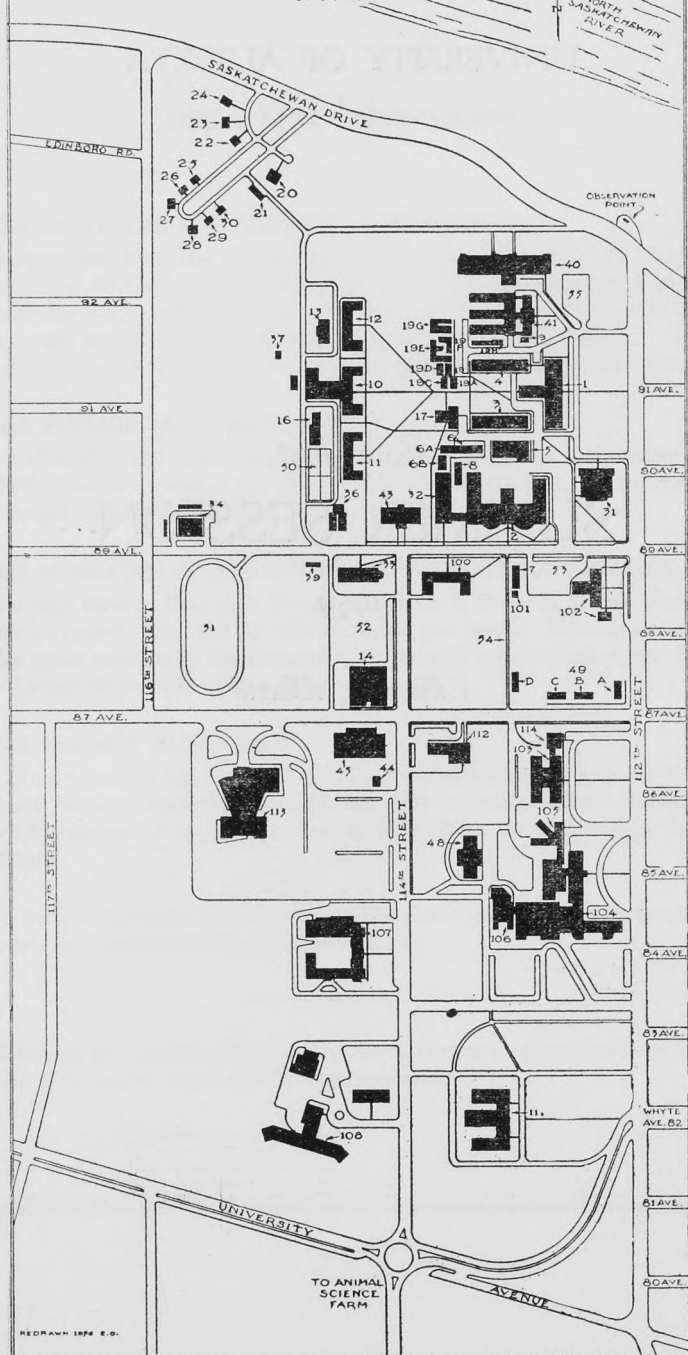
UNIVERSITY OF ALBERTA

*Forty-first*  
SUMMER SESSION

1959

*Edmonton, Alberta*

— MAP OF —  
UNIVERSITY OF ALBERTA  
GROUNDS





# UNIVERSITY OF ALBERTA

## DIRECTORY OF BUILDINGS AND DEPARTMENTS

NOTE: The following numbers correspond to reference numbers on the adjacent map.

Aberhart Sanatorium .....	108	Medicine and Clinical Medicine .....	104
Accounting .....	1	Mining and Metallurgy, east	
Administration Building .....	43	entrance of .....	4
Advisory Services .....	43	Modern Languages, 2nd floor of .....	1
Agricultural Engineering, north		National Employment Service .....	43
entrance of .....	4	North Laboratory Building .....	4
Alberta Research Council .....	112	Nurses' Home .....	107
Alumni Secretary .....	33	Nursing, east end of .....	100
Anatomy, 3rd floor of .....	2	Observatory .....	44
Animal Science .....	40	Obstetrics and Gynaecology .....	104
Arts Building .....	1	Ophthalmology and Oto-	
Assiniboia Hall, Men's Residence .....	12	Laryngology .....	114
Athabasca Hall, Men's Residence .....	10	Parking Areas .....	52, 53, 55
Athletic Field and Track .....	51	Pathology, east entrance of .....	2
Bacteriology, east entrance of .....	2	Pembina Hall, Women's Residence .....	11
Biochemistry, 3rd floor of .....	2	Petroleum Engineering, south	
Biological Sciences Building .....	40	entrance of .....	32
Bookstore .....	43	Pharmacy, 3rd floor of .....	2
Botany .....	40	Philosophy, north entrance of .....	4
Business Administration, 2nd floor of	1	Physical Education, east entrance of	14
Cafeteria .....	17	Physics, main floor of .....	1
Campus Residences of University		Physiology and Pharmacology, 2nd	
Staff .....	20-30	floor of .....	2
Cancer Clinic .....	106	Physiotherapy .....	13
Chemistry, west end of .....	2	Plant Science .....	40
Chemical Engineering, west entrance		Political Economy, 2nd floor of .....	8
of .....	2	Post Office .....	43
Civil Engineering, west entrance of .....	32	Power Plant .....	5
Classics, 2nd floor of .....	1	Printing Department .....	8
Convocation Hall, main floor of .....	1	Provincial Analyst, east entrance of .....	3
C.O.T.C. Orderly Room .....	14	Provincial Auditorium .....	113
Dairying, north entrance of .....	3	Provincial Gasoline Testing Lab. ....	112
Dean of Women .....	43	Provincial Lab. of Public Health .....	48
Dentistry, main floor of .....	2	Provost .....	43
Domination Laboratory of Plant		Psychology, north entrance of .....	4
Pathology .....	36	Radio Studio .....	1
Drafting .....	32	Research Council of Alberta .....	112
Education Building .....	111	Rink .....	45
Electrical Engineering .....	5	Rutherford Library .....	31
Engineering Building .....	32	St. Joseph's College .....	100
English, 2nd floor of .....	1	St. Stephen's College .....	102
Entomology .....	40	Scout Hut .....	101
Evening Credit Program Director,		Soil Science .....	40
room 219 .....	111	Soil Survey .....	40
Extension Department, south side of .....	3	South Laboratory Building .....	3
Extension Library, west entrance of	31	Staff Apartments .....	49
Fine Arts .....	1	Superintendent of Buildings .....	6B
Gateway Office .....	33	Student Advisory Services .....	43
Geography .....	1	Students' Union .....	33
Geology .....	40	Summer Session, Director, Room 219	111
Graduate Studies, Dean .....	43	Surgery and Clinical Surgery .....	104
Greenhouses .....	41	Telephone Switchboard, basement of	43
Grounds Department .....	16	Tennis Courts .....	50
Gymnasium .....	14	University Elementary School,	
History, 2nd floor of .....	1	Public School .....	111
Household Economics, north entrance		University Hospital:	
of .....	3	Main Building .....	104
Industrial Laboratories, east entrance		Soldiers' Wing (Colonel Mewburn	
of .....	3	Pavilion) .....	103
Infirmery .....	7	Wells Pavilion .....	105
Law, 2nd floor of .....	1	West Laboratory Building .....	36
Library .....	31	Works Department (Foreman, Car-	
Mathematics, south entrance of .....	32	penter Shop and Garages) .....	34
Mechanical Engineering Laboratory ..	6	Works Department (Electrical,	
Medical Building .....	2	Plumbing and Paint Shop) .....	34
		Zoology .....	40

In case of emergency, notify Power Plant (5).

For other information, apply to the office of the Bursar, Administration Building.

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## ACADEMIC CALENDAR

### Summer Session, 1959

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#### February—

Monday, 16—Last day for receiving registrations in English 2.

#### March—

Tuesday, 31—Last day for receiving Summer Session registrations with entitlement to discount on tuition fees.

#### April—

Wednesday, 1—Last day for receiving formal applications from new students for admission to undergraduate and graduate faculties.

Thursday, 30—Last day for receiving Summer Session registrations.

#### June—

Monday, 1—Last day for receiving applications for supplemental examinations from the 1958 Summer Session.

Friday, 5—Last day for the payment of Summer Session fees without penalty.

#### July—

Monday, 6—Supplemental examinations from the 1958 Summer Session.

Monday, 6—8:30 a.m. to 12:00 noon—Confirmation of registration and payment of fees if not previously paid. Arts Building.

Monday, 6—1:00 p.m.—Lectures begin in afternoon courses. (See Note 1 below.)

Tuesday, 7—8:00 a.m.—Lectures begin in morning courses. (See Notes 1 and 2 below.)

Friday, 10 and Saturday, 11—Preliminary examinations in all Summer Session courses.

Monday, 13—Last day for the payment of Summer Session fees.

#### August—

Thursday, 13 and Friday, 14—Final examinations in all Summer Session courses.

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#### NOTES:—

1. Students in laboratory courses will be advised during the first lecture period as to when the laboratory work will commence.
2. For the first week only, classes will meet on Saturday morning.

## ADMINISTRATIVE STAFF

### PRESIDENT OF THE UNIVERSITY—

VICE-PRESIDENT—Walter Hugh Johns, B.A., Ph.D.

ASSISTANT TO THE PRESIDENT—George Samuel, M.A.

DIRECTOR OF THE SUMMER SESSION AND OF THE EVENING CREDIT PROGRAM—  
John William Gilles, B.A., M.A., M.Ed., Ed.D.

DEAN OF THE FACULTY OF ARTS AND SCIENCE—Douglas Elstow Smith, M.A., Ph.D.

DEAN OF THE FACULTY OF EDUCATION—Herbert Thomas Coutts, B.A., M.A., Ph.D.

DEAN OF THE FACULTY OF GRADUATE STUDIES—Arthur Gilbert McCalla, B.Sc.,  
M.Sc., Ph.D., F.R.S.C.

DIRECTOR OF THE SCHOOL OF HOUSEHOLD ECONOMICS—Hazel McIntyre, B.Sc.,  
M.S.

DIRECTOR OF THE SCHOOL OF PHYSICAL EDUCATION—Maurice Lewis Van Vliet,  
B.S., M.S., Ed.D.

DIRECTOR OF EXTENSION—Darroch Duncan Campbell, B.Com., B.A.

PROVOST OF THE UNIVERSITY—Aylmer Arthur Ryan, M.A.

DIRECTOR OF STUDENT ADVISORY SERVICES—Alexander Joseph Cook, B.Sc., M.A.,  
Ph.D.

DEAN OF WOMEN AND WARDEN OF PEMBINA HALL—Maimie Shaw Simpson, B.Sc.,  
M.Sc. M.Ed.

LIBRARIAN TO THE UNIVERSITY—Bruce Braden Peel, M.A., B.L.S.

REGISTRAR OF THE UNIVERSITY—Alexander Duncan Cairns, B.A.

ADMISSIONS REGISTRAR—Geoffrey Bradford Taylor, M.Sc.

ASSISTANT REGISTRAR—Harold Richard Hawes, B.Sc.

BURSAR OF THE UNIVERSITY—John MacLean Whidden, B.Com.

ACCOUNTANT—Murray Alexander Rousell, B.Com., C.A.

PURCHASING AGENT—Edward Frederick Hunter, B.Com.

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## ACADEMIC STAFF

JOHN DOUGLAS AIKENHEAD, B.Sc., A.M., Ed.D., Associate Professor of Education,  
University of Alberta in Calgary.

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BROTHER ALOYSIUS, F.S.C., M.A., Rector, St. Joseph' College, Edmonton.

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UNIVERSITY OF ALBERTA

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- ROBIN W. WINKS, M.A., Ph.D., Assistant Professor and Head, Carnegie Studies in History, Yale University.
- ALBAN DEWES WINSPEAR, B.A., M.A., Special Lecturer in Classics and Philosophy, University of Alberta in Calgary.
- MAX WYMAN, B.Sc., Ph.D., F.R.S.C., Professor of Mathematics, University of Alberta.
- EDWARD NORMAN YATES, A.O.C.A., Assistant Professor of Art, University of Alberta.
- JOHN YUSEP, B.Ed., B.A., Business Education Co-ordinator, Victoria Composite High School, Edmonton.

## GENERAL SECTION

The University of Alberta Summer Session offers a variety of courses for the convenience of students who are unable to attend the regular sessions. Special attention is given to meeting the needs of teachers desirous of improving their professional qualifications.

One important feature of Summer Session work is that a substantial portion of course content must be mastered before the session opens. Justification for this requirement is that (a) summer courses carry the same credit as regular session courses, and (b) the summer term is of only six weeks' duration. Examinations covering this assigned study will be held on Friday and Saturday, July 10 and 11.

**Students should register as early as possible. The deadline for registration is April 30.**

**The University reserves the right to restrict registration in, or to withdraw, any of the courses proposed for the 1959 Summer Session.**

## CLASSIFICATION OF STUDENTS

In the Summer Session, students are classified as graduates, provisional graduates, undergraduates, specials, and auditors.

**Graduate Students** are those holding a recognized degree who have been formally admitted to the Faculty of Graduate Studies as candidates for a higher degree.

**Provisional Graduate Students** are those holding a recognized degree who are registered in the Faculty of Graduate Studies for the purpose of qualifying for admission to candidacy for a higher degree. (See calendar for Faculty of Graduate Studies.)

**Undergraduate Students** are those who possess full senior matriculation and who are taking one or more courses for credit towards an undergraduate degree.

**Special Students** are those who, although registered in one or more courses, are currently neither seeking credit towards a degree or diploma granted by the University, nor entrance into a graduate program.

**Auditors** are students who, having presented to the Registrar written permission from an instructor to attend lectures in his course, are allowed to register in the course as auditors, on the understanding that this privilege permits them only to listen and not to participate in class discussions, assignments, or examinations.

**Note:** Auditing privileges are restricted to students already currently registered under one of the preceding categories.

## ADMISSION

Prospective students who have not previously attended the University of Alberta must complete Application for Admission forms and must submit them not later than April 1.

Graduate students should obtain Application for Admission forms from the



Dean of Graduate Studies; Education students, from the Dean of Education; all others, from the Registrar.

Teachers who attended the summer sessions conducted by the Alberta Department of Education prior to 1944 are not considered to have attended the University of Alberta. They *must* file Application for Admission forms before they will be permitted to register.

### ADMISSION WITH ADVANCED STANDING

Students from other universities may be admitted to advanced standing except in combined courses. All applications for such admission should be addressed to the Registrar not later than April 1. Each application will be dealt with on its merits by the Committee on Admissions. Extra-mural credits from recognized universities may be accepted under certain conditions, but such credits will not be considered beyond the first year of university work.

**Under no circumstances will a degree be granted until a final year has been satisfactorily completed at the University of Alberta.**

### MATRICULATION

#### General Requirements

Matriculants from the high schools of Alberta seeking admission to the University must possess—

- (a) a high school graduation diploma with
- (b) "B" or higher standing in the required courses of Grade XII as set forth in the prescriptions of the various schools and faculties, and
- (c) an average in these courses of at least 60%.

#### Faculty of Arts and Science

**For the degree of B.A.**—The general requirements with credit in:

1. English 30;
2. Social Studies 30;
3. Mathematics 30;
4. French 30 or German 30 or Latin 30;
- 5 and 6. **Two** of: Chemistry 30, Physics 30, Biology 32, French 30 or German 30 or Latin 30.

**For the degree of B.Sc.**—The general requirements with credit in:

1. English 30;
2. Social Studies 30;
- \*3. Mathematics 30;
4. French 30 or German 30 or Latin 30;
- 5 and 6. **Two** of: Chemistry 30, Physics 30, Biology 32.

\*Mathematics 31 (Trigonometry) with B standing or better will also be required for admission to all B.Sc. programs in the physical sciences (chemistry, geography, geology, mathematics and physics).

**Note:** Students who completed Grade XII in 1954 or earlier will be given full consideration. They are advised to write or see the Registrar of the University and to provide him with complete transcripts of their high school records.

### **Faculty of Education**

**For the degree of B.Ed.**—The general requirements with credit in:

1. English 30;
2. Social Studies 30;
- 3, 4, 5 6. **Four of:** French 30, German 30, Latin 30, Chemistry 30, Physics 30, Biology 32, Mathematics 30, Music 30.

#### **Notes:**

1. Candidates intending to specialize in Household Economics or Physical Education should offer Chemistry 30.
2. Applicants of age 20 or over will not be required to present a high school diploma.
3. Students admitted prior to September, 1953, to the one-year teacher training program offered in the Faculty of Education may complete matriculation requirements on the basis of those existing at the time of admission.

### **Other Faculties**

Students interested in the matriculation requirements of other faculties and schools of the University should address a request for the appropriate calendar to the Registrar.

### **MATRICULATION DEFICIENCIES**

1. With the approval of the Dean of the faculty concerned, students who through no fault of their own were unable to secure standing in certain matriculation subjects may register in French A, German A, Latin A, Chemistry A, or Physics A. These courses do not carry university credit if they are offered as matriculation subjects. (See item 3 below.)
2. Candidates deficient in Grade XII English or Social Studies may not under any circumstances register for courses leading to degree credit.
3. All candidates, other than certificated teachers, who are deficient in any matriculation requirement are strongly advised to enroll either in the special Grade XII Summer Schools conducted in Red Deer by the Department of Education and in Calgary by Mount Royal College, or in correspondence courses. For further information concerning the Red Deed Summer School and correspondence courses, students should write to Mr. G. F. Bruce, Director, Correspondence School Branch, Public Works Building, Edmonton.
4. For the exclusive benefit of certificated teachers who wish to remove matriculation deficiencies, the Department of Education will conduct a special Grade XII Summer School on the University campus during the 1959 Summer Session. Teachers interested in this service should communicate with Mr. S. A. Earl, Co-ordinator of Teacher Education, Department of Education.
5. Special arrangements for clearing matriculation deficiencies are also available in the Faculty of Education for teachers who were granted Alberta Second-Class Certificates prior to 1935. Teachers wishing to take advantage of these arrangements should communicate directly with the Dean.

### **SUMMER SESSION BURSARIES**

The Department of Education will provide a maximum of 250 Summer Session bursaries, each of \$100, payable to undergraduate students who have

completed a minimum of two years of professional training and are holders of a Standard Certificate of its equivalent, or who in one Summer Session may qualify for a Standard S Certificate. Applicants must have satisfactory academic standing, be recommended by a superintendent of schools or a high school inspector, and must sign an undertaking to teach in a senior high school for one year in the Province of Alberta immediately following the completion of the Summer Session.

Teachers who are interested should immediately confer with the superintendent of the division or county, or the high school inspector concerned, who will be able to provide application forms. These forms may be obtained also from Mr. S. A. Earl, Coordinator of Teacher Education, Department of Education, Edmonton, Alberta.

Teachers applying for bursaries should attach the application forms to their Summer Session registration forms.

### **ADVANCE REGISTRATION**

Advance registration is required of all Summer Session students. Registration forms must be filed not later than April 30.

**Requests for changes in registration after April 30 will not be entertained.**

Early registration is being encouraged so that students will be able to secure their textbooks and course outlines in time to complete satisfactorily the pre-session study assignments.

Registration forms are enclosed in each copy of the Summer Session Announcement. They may be obtained also from the Registrar of the University or from the Dean, Faculty of Education.

### **REGISTRATION PROCEDURE**

#### **Advance Registration**

1. Registration forms must be completed and returned in duplicate (white and buff forms) not later than April 30th, together with the registration fee of \$2.00. Cheques or Money Orders must be made payable to the University of Alberta.

**Students whose registration forms are received, or postmarked, not later than March 31, will be granted a reduction in instruction fees of \$5.00 per course.\***

2. When their advance registrations have been approved, students will receive from the Registrar pre-session study syllabi and a statement of fees.

#### **Confirmation of Registration**

1. All students must confirm their advance registrations by reporting their presence to the Registrar in the Arts Building between 8:30 a.m. and noon on July 6th. Special forms will be provided for this purpose. Students failing to meet this requirement, without reasons satisfactory to the Registrar, will be assessed a penalty fee of \$2.00.

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\*Students registered in the Faculty of Graduate Studies are not eligible for this discount for the reason that they are required to pay a fixed total tuition fee. Neither are students in the Emergency Teacher Training Program eligible for this discount.

To avoid congestion and undue delay, students are asked to report according to the following schedule:—

- 8:30 a.m.—Students with surnames **A to G**  
 9:30 a.m.—Students with surnames **H to M**  
 10:30 a.m.—Students with surnames **N to Z**

2. Upon confirmation of registration students will receive an Evergreen and Gold card, which will serve as an identification card.
3. Students who have confirmed their registrations may not subsequently drop courses without first obtaining the authorization of the faculty or school in which they are registered.

### Payment of Fees (Please note carefully)

Fees may be paid at the time of advance registration or at any time up to and including June 5. A penalty of \$5.00 will be charged on any payment made after that date and must be added to any remittance mailed or delivered to the University. If payment of fees is made after receipt of a fee assessment card, cheques or money orders, payable to the University of Alberta, should be sent direct to the Bursar, together with the fee assessment card.

### FEES

Fees are payable at the time of advance registration or upon receipt of a statement of fees from the Registrar. For details regarding payment of fees see the section above under that heading.

In case of non-attendance all fees, except the registration fee, will be refunded upon written application to the Registrar.

If a student withdraws with the approval of his Dean after classes have commenced, an adjustment of fees will be made on a pro rata basis.

**All instruction fees are subject to a discount of \$5.00 per course, provided that advance registration and payment of the registration fee of \$2.00 have been completed on or before March 31.\***

Registration is incomplete until fees have been paid in full. If payment has not been made by July 13, registration will be subject to cancellation and the student to exclusion from classes,

### General Fees

(payable by all students)

Registration .....	\$ 2.00
Library .....	3.00
Medical Service .....	2.00
Students' Union: General .....	1.00
Building Fund .....	2.50
	<hr/>
	\$10.50
Year Book fee (optional at registration) .....	4.75

\*Students registered in the Faculty of Graduate Studies are not eligible for this discount for the reason that they are required to pay a fixed **total** tuition fee. Neither are students in the Emergency Teacher Training Program eligible for this discount.



### Instruction Fees

Instruction fee, per course .....	\$40.00
Laboratory fee, per course .....	5.00
Auditor's fee, per course .....	10.00
Instruction fee, Emergency Teacher Training Program, per student	55.00

### Penalty Fees

For payment of any fees after June 5 .....	\$ 5.00
For failure to confirm registration on July 6 .....	2.00

### Sample Fee Assessment

A student who is subscribing to the Year Book and who registers by March 31 to study two non-laboratory courses will pay fees as follows:

General fees (see above) .....	\$10.50
Year Book subscription .....	4.75
Instruction (2 @ \$35.00) .....	70.00

Cheques should be made payable at par to the University of Alberta, not to any officer of the University.

### PREPARATORY STUDY

In view of the brevity of the Summer Session, it is expected that students will have mastered about twenty percent of the content of their courses prior to the opening of the session.

#### Study Outlines

Study outlines giving directions for preparatory work in each course will be sent to students as soon as, but not before, their registrations have been approved.

#### Textbooks

Textbook titles, with prices quoted, will be included in the study outlines. Textbooks may be obtained from the University Bookstore at Edmonton. Orders must be accompanied by remittances. No. C.O.D. orders will be accepted.

Students are advised to order texts required for pre-session study within two weeks after receiving outlines. Failure to do so may result in their being unable to obtain texts in time to complete the pre-session study requirements.

#### Preliminary Examinations

Examinations on the prescribed preparatory study will be held in all courses on Friday and Saturday, July 10 and 11. If preparation proves to be inadequate, a student may be asked to withdraw from the course. This requirement makes it all the more necessary that registration be completed at an early date, textbooks secured, study commenced, and the work carried forward consistently.

### CLASSES

#### Course Selection

Since there are only four periods per day, each of two hours' duration, it is obvious that many classes are in session at the same time. Students are urged to look carefully at the timetables displayed on the last page of this Announcement before selecting their courses.

### **Class Loads**

1. Registration in two non-laboratory courses, which involves a weekly lecture schedule of 20 hours, is regarded as a normal class load in the Summer Session.
2. **Since a laboratory course involves a weekly load of from 15 to 25 hours, it is inadvisable for a student registering in a laboratory course to register in another course.**
3. Registration in more than two courses is permitted only in very special circumstances. Application for this permission must be made at the time of advance registration, the special circumstances being clearly stated.

### **Gifts to Instructors**

Presentation of gifts to instructors at the end of the Summer Session is not in accordance with the tradition of this University.

### **ATTENDANCE**

1. Regular attendance is expected of all students in all courses. Students having more than two unexcused absences may be refused permission to take the final examination.
2. Absences are counted from the first day of the session.
3. **Illness and Physical Disability:**
  - (a) Students desiring to secure excuse for absence on the grounds of illness or disability must arrange for this promptly after the period of absence has terminated.
  - (b) Excuse for illness or physical disability is normally certified by the Infirmary physician. Absence cards for this purpose are obtainable at the Infirmary. **Students desiring such certification should report to the Infirmary either in person or by telephone message at the time of their illness.**
  - (c) Absence cards are required for each period of absence, even in the case of students suffering from chronic or recurrent disabilities.
  - (d) No form of excuse other than the absence card will be accepted in regard to sickness or physical disability.
4. **Other Causes of Absence:** Students must secure absence cards from the Registrar in every case where excuse for absence is sought on account of:
  - (a) domestic affliction or other extreme circumstances;
  - (b) transfer of attendance records from one course to another; or
  - (c) lectures missed because of conflicts with examinations.All such absence cards must be properly certified and returned promptly to the Registrar's office.
5. Students desiring **leave of absence** in any given course must apply to the Registrar. At the end of such a period of absence, the student must present an absence card for the Registrar's signature.

### **EXAMINATIONS**

1. **Final Examinations.** Final examinations will be held immediately at the close of the Summer Session, specifically on Thursday and Friday, August 13 and 14.

2. **Distribution of Credits.** In each course where a final examination is held credit of not less than 30% nor more than 70% will be assigned to term work. The remaining credit in each course will be assigned to the final examination.
3. **Pass Marks.** The pass mark in all courses is 50% except in the Faculty of Graduate Studies, where it is 65%.

4. **Absence from Final Examinations.** Any student who is ill or in whose family there is serious domestic affliction is advised not to sit for a final examination. Instead he should forthwith furnish the Registrar with evidence of the circumstances which prevent his writing the examination, and should apply for a deferred final examination.

If a student becomes ill or receives word of domestic affliction during the course of an examination, he should report at once to the Supervisor, hand in his unfinished paper and request that it be cancelled. Thereafter, if illness is the cause, he must go directly to the Infirmary so that any subsequent application for a deferred examination may be supported by a medical certificate. The Registrar should be notified of the circumstances in writing within forty-eight hours of the examination.

Should a student write an examination, hand in his paper for marking, and later report extenuating circumstances to support his request for cancellation of his paper and for another examination, such request will not be entertained.

5. **Statement of Record.** After the end of the Summer Session a statement of record will be mailed to each student at the home address indicated on his registration form. In the case of failure, the statement of record will include information regarding supplemental examinations.
6. **Appeals.** Final examination papers may be re-read on an appeal being made to the Registrar within thirty days after the publication of results, accompanied by a fee of \$10.00 for each paper. The fee will be returned if the appeal is sustained, i.e., if a failure is changed to a pass, or Class III standing to Class II.
7. **Supplemental Examinations.** Supplemental examinations will be written immediately at the commencement of the next Summer Session. A student who fails a course in the 1959 Summer Session may apply to the Registrar for permission to take a supplemental examination, application to be made not later than June 1, 1960. Any student neglecting to take or failing to pass a supplemental examination is required to repeat the course or take an equivalent one.
8. **Deferred Final Examinations.** A student who has missed a final examination because of illness or domestic affliction may apply for a deferred final examination to be written at the commencement of the next Summer Session (see section 4 above).
9. **Examination Fees.**
  - (a) **Final Examinations:** No fee is levied for final examinations written during the regular examination periods.
  - (b) **Supplemental Examinations:** A fee of \$10.00 is charged for each supplemental examination written during a regular supplemental examination period. Applications for supplemental examinations received after June

1st must be accompanied by an additional fee of \$5.00 and many not necessarily be accepted.

- (c) **Deferred Final Examinations:** A fee of \$5.00 is charged for each deferred final written during regular supplemental examination periods. The fee for special deferred finals requiring the setting of special papers is \$10.00 per paper.
- (d) **Special Supplemental Examinations:** For special supplemental examinations a fee of \$15.00 is charged for each subject.
- (e) **Outside Centres:** An additional fee of \$5.00 per subject is charged for writing supplemental examinations in established Alberta centres other than Edmonton and Calgary.

### LIVING ACCOMODATION

Residential accommodation is provided in the University residence halls for a limited number of students. Only *bona fide* students are permitted their use. Application for reservations, accompanied by a deposit of ten dollars (\$10.00), should be made directly to the Bursar and should be made early. Rooms will not be held beyond the night of July 6 unless special arrangements have been made with the Bursar, nor will room deposits be returned unless cancellation has been received before the opening date of the Summer Session.

The rate for room and board in the residences is \$105.00 for the six-weeks period for rooms having two occupants, and \$112.50 for single rooms. In a few cases the single rate is applicable where large rooms have more than one occupant. These amounts (less the ten-dollar deposit fee) are payable on or before July 6, 1959.

The University Cafeteria provides a full meal and restaurant service for the convenience of students, and in addition the Snack Bar in the Students' Union Building is open during hours adapted to students' needs.

The University has a second cafeteria in the Education Building with hours adapted to the needs of students taking courses in that building.

While the University authorities cannot accept responsibility for finding suitable accommodation for students, they are anxious to give whatever assistance they can in the matter. A special service in this regard has been provided. Prior to the Summer Session, **Student Housing Service** prepares lists of available accommodation which may be consulted by students. The service operates as a part of the Student Advisory services and is located on the first floor of the Administration Building. The housing phone is 394951.

A limited amount of accommodation is available in St. Stephen's College and St. Joseph's College. Details can be secured by writing directly to the colleges.

Jurisdiction over the conduct of students in the University residences during the Summer Session is vested in the Provost, the Wardens, and the men's and women's house committees authorized by the Dean's Council for this purpose.

Among the rules of discipline appears the following: "The use of, bringing or having liquor on University premises, including residences, is strictly prohibited."

### STUDENT ADVISORY SERVICES

The University provides a counselling service available at any time of the year to all University students and prospective students.



1. **Prospective Students:** A bulletin, "Information for Prospective University Students", has been prepared to answer the questions commonly asked. Interviews can be arranged at any time prior to the opening of the Summer Session.
2. **Counselling Service:** Students may make use of the service in regard to studies, vocational choice, personal and financial problems.
3. **Change of Faculty:** Students contemplating a change of school or faculty are advised to consult the Director of Student Advisory Services. This should be done well before the opening of the session.
4. **Student Housing Service:** See preceding section on living accommodation. Enquiries should be addressed to Student Advisory Services, The University of Alberta, Edmonton. The office of the Director, Professor A. J. Cook, is on the first floor of the Administration Building.

#### DEAN OF WOMEN

The Dean of Women, Miss Maimie S. Simpson, has her office in the Administration Building, second floor west, telephone 394951..

#### MEDICAL SERVICES

The Medical Services Fund is a trust fund maintained solely by the fees paid by the members of the Students' Union of the Summer Session. It can, therefore, provide only for treatment of minor ailments and cannot be expected to take care of prolonged or otherwise costly illness.

Students are urged to be in possession of the telephone number of the Infirmary (331765) and of the consulting hours of the Medical Director. In case of illness or emergency the nurse in charge should be called without delay.

#### REDUCED RAILWAY AND BUS FARES

Students, instructors, and dependent members of their families attending the Summer Session from points in Canada are entitled to reduced fares. During the period of three days prior to and the first three days of the session they should purchase a regular one-way fare from their ticket agent and obtain a standard convention certificate. In order to be valid for the purchase of the return trip ticket, at a reduced rate, this certificate must be signed by the Bursar or the Director of the Summer Session.

#### EXTRACURRICULAR ACTIVITIES

Students are urged to remember that the extracurricular program of the Summer Session is rich in opportunities for the enjoyment of sports as well as social and educational activities.

1. **Sports:** Students who are interested should bring appropriate clothing and equipment for participation in fastball, bowling, tennis, badminton, golf, archery, swimming and hiking.
2. **Social:** Social activities include both informal and semi-formal dances, sing-songs, hymn-sings, afternoon teas, musical recitals, and dramatics.
3. **Educational:** The extracurricular educational program consists mainly of lectures delivered by speakers chosen for their competence in the fields in which they speak. In addition, there are talks on music, and music appreciation periods.

### **FALL CONVOCATION, 1959**

Summer Session students who expect to qualify for a degree to be conferred at the Fall Convocation, 1959, should note carefully that announcements regarding the Convocation will be sent to their homes or permanent addresses as reported on their Summer Session registration forms. It is the responsibility of these students to advise the Registrar of changes in their addresses.

### **EVENING CREDIT PROGRAM**

Through its Evening Credit Program, the University offers courses for credit at various centres in the evening and on Saturdays. The purpose of this program is to enable persons employed during the day to commence or continue university study. Admission requirements to all Faculties and Schools are the same as those for students registered in the regular winter session.

In 1958-59, classes are being held in the following centres: Edmonton, Calgary, Red Deer, Camrose, Vegreville, Holden, Grande Prairie and Barrhead.

An important feature of the Evening Credit Program is that advance registration is required of all students. Registration forms, completed in triplicate, must reach the office of the University Registrar at Edmonton, or be postmarked, not later than September 10.

The Evening Credit Program Announcement and registration forms will be available for distribution around June 15, 1959. Requests for same should be addressed to the Registrar, University of Alberta, Edmonton.

For further information, students are invited to write to Dr. J. W. Gilles, Director, Evening Credit Program, University of Alberta, Edmonton.

## **FACULTY OF GRADUATE STUDIES**

The Faculty of Graduate Studies administers programs leading to the degrees of Master of Arts, Master of Education, Master of Science, and Doctor of Philosophy, and makes recommendations for granting the degrees of Doctor of Science and Doctor of Letters. Graduates who have not been accepted as candidates for degrees may register as "provisional graduate students" if they are desirous of seeking admission to candidacy at a later date.

Students proposing to do graduate work in the Summer Session leading to the M.A., M.Ed., and M.Sc. degrees should familiarize themselves with the regulations and procedures set forth in the Calendar of the Faculty of Graduate Studies, which may be obtained from the Registrar. A few of the more important general regulations are given below.

### **Admission**

Application for admission to the Faculty of Graduate Studies must be filed not later than April 1 on forms supplied by the Dean of that faculty. A graduate of another University must arrange with the Registrar of that institution to forward a transcript of his academic record to the Dean of the Faculty of Graduate Studies prior to April 1. The Dean may require the applicant to furnish an official description of the content of the courses listed on the transcript.

### **Registration**

An applicant accepted by the Faculty as a candidate for an advanced degree, other than that of Doctor of Science, or as a "provisional graduate student", is required:

- (a) to register not later than April 30th if he proposes to work on his program in the Summer Session;
- (b) to register for every session during which he plans to use University laboratory or library facilities;
- (c) to register for the session in which he expects to complete his degree program; and
- (d) to file with each set of registration forms a program of studies signed by the head of the department or division responsible for his graduate study program. (Registration and program forms may be obtained from the office of the Dean of the Faculty of Graduate Studies and must be returned to that office when completed.)

### **Thesis and Oral Examination**

A candidate planning to graduate at the Fall Convocation must submit his thesis not later than September 15 and pass an oral examination not later than October 1.

## FACULTY OF ARTS AND SCIENCE

The Faculty of Arts and Science offers courses leading to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Commerce, and Bachelor of Science in Household Economics. It also offers courses in association with other faculties leading to a variety of professional degrees. For fuller details, students should consult the Faculty of Arts and Science Calendar, which may be secured from the Registrar's office.

In the Summer Session the Faculty of Arts and Science offers a sufficient variety of courses to complete the requirements for a B.A. degree in several different patterns and to make a substantial beginning in others. It is also possible to complete the requirements for the B.Sc. degree in the Chemistry, General Science, Physics and Mathematics patterns by Summer Session work. The University cannot guarantee, however, that the courses necessary for these patterns will be offered in a cycle suitable to the needs of each individual student.

Students who are planning to begin work in the Faculty of Arts and Science in the 1959 Summer Session should consult the Dean of the Faculty or the Registrar of the University.

Except by special permission of the Council of the Faculty, no student under its jurisdiction may offer for credit in any period of twelve months from September 1st to August 31st more than five courses, either in the regular winter session from September to April, or both the winter and the summer sessions. Except by special permission of the Council of the Faculty, no student may take in the Summer Session more than two courses.

### GRADUATION REQUIREMENTS FOR THE B.A. AND B.Sc. DEGREES

Students must obtain second-class standing, i.e., a mark of 65%, in not less than **six** courses, of which at least **four** are taken in the second and third years.

Students who began their work for these degrees before September of 1952 may also take advantage of the previous regulations, i.e., of the **senior** courses taken in the second and third years, **four** must be passed with at least second-class standing.

### REQUIREMENTS FOR B.A. and B.Sc. AFTER B.Ed.

Students who have qualified for the degree of B.Ed. may proceed to the degree of B.A. or B.Sc. Students proposing to secure the B.A. or B.Sc. in this manner will be expected to select their subjects in conformity with one of the standard Arts and Science patterns and are advised to consult the Dean of the Faculty of Arts and Science about their programs. If they have met the matriculation requirements of the Faculty of Arts and Science and have completed **thirteen** Arts and Science courses, they will be required to complete at least **six** approved senior courses in the Faculty of Arts and Science, with at least second-class standing in four of these courses. Students with incomplete matriculation for Arts and Science will be required either to remove these deficiencies or to secure credit in University courses of an equivalent standard. Students who have credit in fewer than thirteen Arts and Science courses may be required to complete additional courses.

## **FACULTY OF EDUCATION**

The Faculty of Education has been given the responsibility of providing teacher education in Alberta. It is organized for the professional preparation of teachers for elementary and high school grades, and for graduate study and research in the field of education.

Except by special permission of the Council of the Faculty, no student under its jurisdiction may offer for credit in any period of twelve months from July 1 to June 30 more than the number of courses included in a year of the regular program nor more than two courses in the Summer Session.

### **DEGREE PROGRAMS**

In the Summer Session, the Faculty of Education offers the following programs leading to degrees.

#### **Two Four-Year B.Ed. Programs**

One of these, known as the Elementary Route program, is designed primarily to prepare teachers for the elementary grades; the other, the Secondary Route program, for the high school grades. The latter program demands a moderate amount of specialization in terms of majors and minors. The Elementary Route program provides for a more general training.

Normally, a student may transfer from one route to the other at any point in the four-year program provided he obtains credit in subjects of the new program which were not included in the former one.

#### **B.Ed. Programs for Graduates**

These programs are designed for students who hold pass or honors degrees.

#### **M.Ed. Degree Programs**

See below for a brief statement.

### **CERTIFICATION PROGRAMS**

The Faculty of Education does not award teaching certificates. These are issued by the Provincial Department of Education on the basis of work taken in the Faculty of Education or elsewhere. In the Summer Session, the Faculty of Education offers several programs leading to certification.

#### **General Certification Programs**

Students may qualify in the Summer Session for the following classes of general teaching certificates.

#### **Junior E Certificate (Valid to teach Grades I-IX)**

This certificate is granted to candidates who have completed a special one-year course in teacher education and who have met matriculation requirements.

#### **Standard E Certificate (Valid to teach Grades 1-IX) and**

#### **Standard S Certificate (Valid to teach Grades IX-XI)**

Candidates who have completed a one-year course in teacher education and who have clear matriculation may qualify for these certificates by completing the second year of the appropriate B.Ed. program.



### Professional Certificate (Valid to teach Grades I-XII)

This certificate is granted to candidates who have completed the first three years of the B.Ed. program, Elementary or Secondary Route.

### Special Certification Programs

On the recommendation of the Faculty of Education, the Department of Education issues special certificates in the following subjects: Administration, Art, Business Education, Dramatics, Guidance, Household Economics, Industrial Arts, Primary Work, Music, and Physical Education. The requirements for these special certificates are given at the end of this section of the Announcement.

### ADVANCE CREDITS FOR CERTIFICATED TEACHERS

Certificated teachers who have had a year of teacher education and who have clear matriculation into the Faculty of Education will be given credit for the first year of the four-year B.Ed. program.

A maximum of three course credits will also be allowed in this program for courses completed in the summer sessions conducted by the Alberta Department of Education in the years 1935 to 1943 inclusive, one course credit being allowed for every 75 hours of certified attendance. Certificates covering these summer session credits should be forwarded to the Dean, Faculty of Education, for evaluation.

### THE JUNIOR E PROGRAM

#### (Emergency Teacher Training Program)

The Junior E Program is a special one-year course which normally is given only in the regular session. At the present time, students specially selected by the Department of Education are being allowed to complete this program in three consecutive Summer Sessions. This arrangement constitutes the Emergency Teacher Training Program.

#### The Program

First Session	Second Session	Third Session
Not	Not	Ed. 138
offered	offered	Ed. 151
in	in	Ed. 159Su
1959	1959	Phys. Ed. 101

#### Admission Requirements

##### To the Third Session

- (1) Successful completion of the first and second session programs.
- (2) A recommendation from a Superintendent of Schools.

#### Procedures and Regulations

Students who wish to register for the third session in this program are required to observe all the procedures and regulations set forth in the General Section of this Announcement.

### THE STANDARD ELEMENTARY B.Ed. PROGRAM

This program is open only to students who have clear matriculation into the Faculty of Education.

Upon completion of the first two years, candidates are eligible for the Interim Standard E Certificate, valid in Grades I to IX; completion of three years earns the Interim Professional Certificate, valid in Grades I to XII; completion of four years, the B.Ed. degree.

When planning their programs, students should study the possibilities of securing one or more of the special certificates listed at the end of this section of the Announcement. Having met these requirements, they should apply to the Registrar, Department of Education, for issuance of the appropriate certificates.

### **Special Program for Certificated Teachers (Elementary Route)**

The following revised B.Ed. program came into effect on September 1, 1958, and as a general rule, will be applicable to all students. However, for the time being, the Dean of Education at his discretion may permit students who are well advanced towards their degrees to complete them in accordance with the requirements of the former program.

#### **First Year**

Credit granted on the basis of at least seven months of teacher education.

#### **Second Year**

1. Education 100 or an approved Education option.
2. English 2 or 5E.
3. History 8 or 10.
4. One of Botany 5, Geography 1, or Zoology 5Su.
5. One of English 54, Art 35, Education 34, or Music 35.
6. Arts and Science or senior Education option.

#### **Third Year**

1. Education 376.
2. Philosophy 40, 52, 54, or 61. (Philosophy 44 or 56 may be offered by Roman Catholic students.)
3. Senior Education option.
4. One of English 54, Art 35, Education 34, or Music 35.
5. Arts and Science option.

#### **Fourth Year**

1. Ed. 492.
2. Senior Arts and Science or senior Education option.
3. Senior Arts and Science option.
4. Senior Arts and Science option.
5. Senior Arts and Science option.

#### **Graduation Requirements**

To qualify for the B.Ed. degree, Elementary Route, students must:

1. Include in their programs English 54; two courses in science and/or mathematics; two courses in the social sciences, one to be in Canadian history; one course in art; one course in music.
2. Obtain second class standing or better in no fewer than six courses, of which four must be senior courses. (Until July 1, 1960, students registered

in 1957 or before may apply the second class standing regulations in effect during 1957-58).

### Notes on the Program

1. Candidates are reminded that they will be recommended for the Standard E Certificate only when they have obtained credit in all of the courses of the second year as outlined above.
2. Certificated teachers who have been granted credit for the first year of the B.Ed. program on the strength of their Normal School or Jr. E. standing, may not elect Education 252 or 254 for degree credit.
3. (a) For a list of Arts and Science options offered in the 1959 Summer Session consult the section of this Announcement entitled "Details of Courses".  
 (b) Courses in Philosophy and Psychology are not acceptable as Arts and Science options in the Faculty of Education.  
 (c) Senior Arts and Science options are numbered 40 or higher. Before selecting a senior course, a student should make sure that he holds credit in the prerequisite, if any.
4. Each candidate is advised to present a four-course major for graduation as outlined in the section immediately following.

### Elementary Route Majors

In consultation with the Faculty of Education students may arrange for an Elementary Route major in one of the following areas:

1. English: English 2 or 5, English 54, and two other courses.
2. Social Science: Geography 1, History 8 or 10, and two other courses.
3. Science: Geography 1 and three other courses.
4. Art: Ed. 252 and three other courses.
5. Music: Ed. 254 and three other courses.
6. Primary Grade Education: as prescribed for Primary Certificate.
7. Intermediate Grade Education: Methods courses of the second year and two of Ed. 306, 322B, 328, 330, 338.
8. Opportunity Room Education: Ed. 176, 376 and two of Ed. 310, 324, 370Su, 372, 470Su.

### Note:

Certificated teachers who have been granted credit for the first year of the B.Ed. program on the strength of their Normal School or Junior E standing, are considered to hold course credits equivalent to Education 252, Education 254, and to the methods courses referred to in item 7 above.

### THE STANDARD SECONDARY B.ED. PROGRAM

This program is open only to students who have clear matriculation into the Faculty of Education.

Upon completion of the first two years, candidates are eligible for the Interim Standard S Certificate, valid in Grades IV to XI; completion of three years earns the Interim Professional Certificate, valid in Grades I to XII; completion of four years, the B.Ed. degree.

When planning their programs, students should study the possibilities of securing one or more of the special certificates outlined at the end of this section

of the Announcement. Having met these requirements, they should apply to the Registrar, Department of Education, for issuance of the appropriate certificates.

### MAJOR AND MINOR FIELDS

Candidates must select (a) a major field of study, and (b) a minor field. These are listed below. In all cases the major field must be built up to **four** or more courses to qualify for the B.Ed. degree. The minor field will consist of **two** or more courses. Junior courses must be so selected as to permit entry to the senior courses required in the last two years.

**N.B.—If the major is elected from groups 1 to 8, the minor may be chosen from any other group. If, however, the major is elected from groups 9 to 13, the minor must be elected from groups 1 to 8.**

#### Majors and Minors

Group	Major	Minor
1. English	English 2 and any <b>three</b> senior courses.	English 2 or 5E, and <b>one</b> senior course.
2. French	French 2 and any <b>three</b> senior courses (French 53-Su recommended).	French 2 and <b>one</b> senior course (French 50 or French 53Su recommended).
3. Latin	Latin 2 and any <b>three</b> senior courses (including Classics 50 and 51).	Latin 2 and a senior course in Latin.
4. Other Foreign Language	<b>Four</b> approved courses.	<b>Two</b> approved courses.
5. History, Political Economy or Science, Sociology, Geography	History 8 or 10, History 58 or 59 or 75 or 76 or Political Science 54, and any other <b>two</b> additional senior courses, of which one must be in geography.	History 8 or 10, and <b>one</b> senior course (History 58 or 59 or 75 or 76 or Political Science 54 recommended).
6. Mathematics	Mathematics 1 or 5, Mathematics 40 and any <b>two</b> of Mathematics 41, 43, 45, 47, 50, 51.	Mathematics 1 or 5, and any <b>one</b> of Mathematics 40, 43, 45, 47.
7. Biological Sciences*	Any <b>four</b> of: Botany 1a, 1b or Botany 5, Botany 50, 53 Zoology 1, 51, 52 Entomology 41 Genetics 51 or 52 Physiology 60 Biology 41 (if taken with three of Entomology 41, Genetics 51 or 52, Botany 50, and Physiology 60).	Any <b>two</b> courses listed for a major.

Group	Major	Minor
8. Physical Sciences*	Any four of: Physics 35 or 36, 43 or 46, 50, 58 Chemistry 35, 39 or 42, 53 or 54, 58 Geology 1, 51, 55 Geography 1, 52 (with consent of instructor) Mathematics 53 (Astronomy).	Any two courses listed for a major. Physical Science 41 may be taken only with Geography 1 or Mathematics 53.
9. Fine Arts	Four approved courses in art, or in music, or in drama; or two approved courses in two of the above areas.	Two approved courses in art, or in music, or in drama.
10. Household Economics	Household Economics 11 and 12, and two of 44, 45, 46.	Household Economics 11 and 12.
11. Business Education	Education 246 or 346 and any three of the following: Accounting 1, Accounting 52, Education 248 or 348, Education 350 or Business Administration 40 or 55, Commercial Law 51.	Education 246 or 346 and any one of: Accounting 1, Education 248 or 348, Education 350 or Business Administration 40 or 55, Commercial Law 51.
12. Physical Education	Physical Education 103-109 Physical Education 224 Physical Education 106 Physical Education 402	Physical Education 103-109 Physical Education 224
13. Industrial Arts	Education 141A-241A, 142B, 242C, 242D.	Two of Education 141A-241A, 142B, 242C, 242D.

\*Normally it will be advisable to choose two courses from each of two subject areas (e.g. two courses in botany and two in zoology, or two courses in physics and two in chemistry). The student may, however, choose all four courses from a single area if he wishes. Normally the minor associated with a physical science major should be Mathematics 1 or 5 and Mathematics 40.

#### Special Program for Certificated Teachers (Secondary Route)

The following revised B.Ed. program came into effect on September 1, 1958, and as a general rule, will be applicable to all students. However, for the time being, the Dean of Education at his discretion may permit students who are well



advanced towards their degrees to complete them in accordance with the requirements of the former program.

### **First Year**

Credit granted on the basis of at least seven months of teacher education.

### **Second Year**

1. Ed. 100 or an approved Education option.
2. English 2 or 5E.
3. Ed. 280S.
4. Major.
5. Minor.
6. Major (unless the major is in English).
7. Minor (unless the minor is in English).

### **Third Year**

1. Education 376.
2. Philosophy 40, 52, 54, or 61 (Philosophy 44 or 56 may be offered by Roman Catholic students).
3. Senior Education option.
4. Senior Arts and Science option (in major field).
5. Junior or senior Arts and Science option.

### **Fourth Year**

1. Education 492.
2. Senior Arts and Science option (in major field).
3. Senior Education option.
4. Senior Arts and Science option.
5. Senior Arts and Science option.

### **Graduation Requirements**

To qualify for the B.Ed. degree, Secondary Route, students must:

1. Include in their programs a Division C option (mathematics or science). A laboratory science is recommended.
2. Obtain second class standing or better in no fewer than **six** courses, of which **four** must be senior courses. Until July 1, 1960, students registered in 1957 or before may apply the second class standing regulations in effect during 1957-58).

### **Notes on the Program**

1. Candidates are reminded that they will be recommended for the Standard S Certificate only when they have obtained credit in all of the courses of the second year as outlined above.
2. Students are advised to include in their programs at least one course from the following group: history, economics, political science, sociology.
3. (a) For a list of Arts and Science options offered in the 1959 Summer Session consult the section of this Announcement entitled "Details of Courses".  
(b) Courses in Philosophy and Psychology are not acceptable as Arts and Science options in the Faculty of Education.

- (c) Senior Arts and Science options are numbered 40 or higher. Before selecting a senior course, a student should make sure that he holds credit in the prerequisite, if any.

### **B.Ed. PROGRAMS FOR GRADUATE STUDENTS**

The following are basic courses for graduate students from which selection will be made for the various purposes and for various categories of students according to the schedule below:

- (1) Education 280E or 280S: Education Method.
- (2) Education 282: Observation and Student Teaching.
- (3) Education 362: Educational Administration.
- (4) One of Education 308, 310, 478, or a suitable course approved by the Division of Educational Psychology.
- (5) Education 476: Educational Psychology.
- (6) One of Philosophy 40, 52, 54, 61 (Philosophy 44 or 56 may be offered by Roman Catholic students).
- (7) Education 492: Philosophy of Education.
- (8) An approved senior A, B, C, or senior Education option.\*
- (9) An approved senior A, B, C, or senior Education option.\*

### **CERTIFICATION AND GRADUATION REQUIREMENTS**

#### **Non-Certificated Candidates**

##### **Holding B.A. or Equivalent Degree**

Interim Standard S or E: (1) to (5) inclusive.  
Interim Professional: (1) to (7) inclusive.  
B.Ed. degree: (1) to (9) inclusive.  
Graduation requirement: Four seconds or firsts.

##### **Holding M.A. or Honors Degree:**

Interim Professional: (1) to (5) inclusive.  
B.Ed. degree: (1) to (7) inclusive.  
Graduation requirement: Four seconds or firsts.

#### **Certificated Candidates**

##### **Holding B.A. or Equivalent Degree:**

Interim Standard S or E: (1), (5).  
Interim Professional: (1), (5), (6), (7).  
B.Ed. degree: (1), (5), (6), (7), (8), (9).  
Graduation requirement: Three seconds or firsts.

##### **Holding M.A. or Honors Degree:**

Interim Professional: (1), (5).  
B.Ed. degree: (1), (5), (6), (7).  
Graduation requirement: Three seconds or firsts.

#### **NOTE:**

The holder of a first-class certificate and a B.A. or M.A. or equivalent degree is entitled to a professional certificate without further requirement.

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\*With divisional approval, well qualified students may elect a graduate course in Education

### THE M.ED. DEGREE

Students interested in this degree should refer to the section of this Announcement which deals with the Faculty of Graduate Studies.

Students planning to **begin** work on an M.Ed. degree in the 1959 Summer Session should observe the following procedures:

1. Secure from the Registrar or from the Faculty of Education copies of the calendars of the Faculty of Education and of the Faculty of Graduate Studies.
2. Secure from the Faculty of Education a copy of "Preliminary Information for Canadiates for the M.Ed. Degree". Forms for making application for admission to the Faculty of Graduate Studies will accompany this document.
3. Submit the Application for Admission form to the Dean of the Faculty of Graduate Studies. This must be done not later than April 1. Then consult the Faculty of Education through the Divisional Chairman in whose division the major part of the work is to be done.
4. With the Divisional Chairman, work out a program of study for submission to the Faculty of Graduate Studies for its approval.

### CERTIFICATION OF OUT-OF-PROVINCE TEACHERS

Teachers holding certificates not issued by the Province of Alberta should apply directly to the Registrar, Department of Education, Administration Building, Edmonton, for an equivalent Alberta teaching certificate.

Frequently one condition of making such certificates permanent in Alberta is the successful completion of **two** courses at a University of Alberta Summer Session. The Registrar, Department of Education, will decide whether this is required. When such courses are prescribed they should be chosen in consultation with the Dean, Faculty of Education.

It is important that candidates who wish these courses to count for degree credit as well as for certification consult with the Faculty to make sure that they fit into the degree program. Candidates with the B.A. or similar degree may wish to begin the B.Ed. program for graduates described above. Those with the B.Ed. degree who may wish to be considered for the M.Ed. program should elect courses numbered over 500.

### SPECIAL CERTIFICATION IN ADMINISTRATION

A revised program of four courses leading to the Special Certificate in Educational Administration came into effect on July 1, 1958. For further information regarding the courses required, see the section on Special Certificates below.

### SPECIAL CERTIFICATION IN GUIDANCE

Revised programs leading to the Junior and Senior Certificates in Guidance came into effect on July 1, 1958. For details of the requirements for each certificate, see the section on Special Certificates below.

### SPECIAL CERTIFICATION IN HIGH SCHOOL SUBJECTS

Special certification is required for the teaching of certain high school courses in art, business education, dramatics, home economics, industrial arts, music, and physical education. For specific information on this matter, teachers

should consult the current editions of the Junior High School and Senior High School Handbooks.

In many instances students will be able to meet requirements for special certificates in whole or in part while following programs leading to the B.Ed. or M.Ed. degree.

In the tables given below all special certificates are listed, together with the credits required to obtain each.

### Certification in Business Education

Revised programs leading to certification in Business Education came into effect on July 1, 1958. Since that date teachers have not been able to qualify for special certification in Business Education by writing special examinations. For the names of the new certificates and for details of the requirements for each, see the section on Special Certificates below.

Teachers who hold special certificates in commercial subjects issued under former regulations, or who may have commenced work on such certificates, should communicate with the Registrar, Department of Education, Edmonton, for information concerning the additional courses, if any, in which they must obtain credit in order to qualify for the new certificates in Business Education.

### SPECIAL CERTIFICATES

**Note:** For information concerning the special certificates required for the teaching of specific high school subjects, teachers should consult the current editions of the Junior High School and Senior High School Handbooks.

Subject and Certificate	Requirements for Certification
<b>ADMINISTRATION—</b>	
	(a) Education 564.
	(b) Two of Education 560, 562 or 566.
	(c) A senior or graduate course approved by the Division of Educational Administration.
	(d) Permanent Professional Teaching Certificate.
<b>ART—</b>	
Junior .....	Ed. 151 or 251 or 252 or 280S (Art) and Art 35.
Senior .....	Junior Certificate plus Art 51 or 61, and Art 53.
<b>BUSINESS EDUCATION—</b>	
Junior .....	Accounting 1, Education 346 (or 246 and 345), Education 348 ((or 248 and 347).
Senior .....	Com. Law 51, Education 350, and the Junior Certificate.
Advanced .....	B.Com. Degree, Teacher's Certificate valid in Grade XII, and the Senior Certificate.
<b>DRAMATICS—</b>	
Junior .....	Drama 35, and Ed. 280S (Drama) or Ed. 255.
Senior .....	Drama 55, one of Drama 51, 52, 53, or Ed. 436, and the Junior Certificate.
<b>GUIDANCE—</b>	
Junior .....	Ed. 176; Ed. 308 or 310; one of Ed. 310 or 308, 474, 478; permanent teaching certificate.
Senior .....	Junior certificate; Ed. 474-574 or 510; Ed. 508 or 526; Ed. 478 and 576, or Math. 45 and Ed. 578; permanent Professional Certificate; two years experience as a counsellor.

Subject and Certificate	Requirements for Certification
<b>HOME ECONOMICS—</b>	
Junior .....	H.Ec. 11 (or H.Ec. 51 and H.Ec. 2) and H.Ec. 12.
Senior .....	Two of H.Ec. 44, 45, 46, in addition to the Junior Certificate.
Advanced .....	Teacher's certificate valid in Grade XII together with B.Sc. in H.Ec. degree.
<b>MUSIC—</b>	
Junior .....	Ed. 153 or 253 or 254 or 280S (Music), and Music 35.
Senior .....	Music 45, Music 51, and the Junior Certificate.
<b>PHYSICAL EDUCATION—</b>	
Junior .....	Phys. Ed. 101, 103, 105, 109, 224.
Senior .....	Phys. Ed. 302, P.E. 106, plus the Junior Certificate.
Advanced .....	B.Ed. in Physical Education degree or B.P.E. degree and appropriate general certification up to and including the Grade XII level.
<b>PRIMARY—</b>	
	(a) Ability to play the piano with sufficient skill to satisfy ordinary demands when teaching songs and rhythms.
	(b) Ed. 176 or equivalent.
	(c) Ed. 284, 286 and 288; or 280E; or successful teaching experience in the primary grades.
	(d) Art 35 or Ed. 252 or equivalent.
	(e) Music 35 or Ed. 254 or equivalent.
	(f) English 54 (Children's Literature).
	(g) One of Ed. 322A, 324.
	(h) One of Ed. 324, 328, 224 322A.
<b>INDUSTRIAL ARTS—</b>	
Junior .....	(a) Ed. 141A, 142B, 242C, 242D.
Senior .....	(b) The Junior Certificate plus Ed. 242F, and two of 242B, 342C, 342D.
Advanced .....	(c) Credits equivalent to shop courses of regular B.Ed. (I.A.) program (10 courses).
Specialist Senior in a unit shop subject .....	(d) Possession of Journeyman's qualifications in an area of unit shop specialization and completion of the special second year of the Program for Journeymen.
Specialist Advanced in a unit shop subject .....	(e) Possession of Journeyman's qualifications in an area of unit shop specialization and completion of the third year of the Special Program for Journeymen, (Route 2). or (f) Possession of Journeyman's qualifications in an area or unit shop specialization and completion of the third year of the Program for Indentured Apprentices, (Route 1).
<b>Note:</b> Students cannot qualify for the Advanced or Specialist certificates in the Summer Session.	

### LEADERSHIP COURSE FOR SCHOOL PRINCIPALS

A special Leadership Course for School Principals will be held as part of the 1959 Summer Session from July 6 to 17 at Concordia College.

The course has been developed by the Alberta School Trustees' Association, the Alberta Teachers' Association, the Alberta School Inspector's Association, the Alberta Department of Education, and the Faculty of Education in an effort to improve the quality of leadership at the school level.



It will be a seminar or workshop type of activity with the program built around the interests and concerns of the course members. While the course is under the official direction of the Faculty of Education, it will not carry any degree credit nor will there be any examinations.

Participation will be limited to 70 experienced principles sponsored by their school boards. The cost per member will be payable by the employing school board. It is expected that course members will live in residence at Concordia College for the two-week period.

Course members will be selected by the end of February. Interested principals should consult with their local superintendents and/or school boards for further details. Other information, as needed may be obtained by writing to The Director, Leadership Course for School Principals, Faculty of Education, University of Alberta, Edmonton.

## SUMMER SCHOOL OF LINGUISTICS

In response to a request from the Canadian Linguistics Association, the University will again conduct a Summer School of Linguistics during the 1959 Summer Session. In so doing, the University recognizes the growing need for linguistically trained scholars, teachers, and government personnel. It is expected that the Summer School of Linguistics will be of interest not only to those who wish to embark on or continue a study of Linguistic Science as a major subject but also

- (a) to teachers of English and foreign languages in high schools, colleges, and universities who wish to apply to language teaching the methods and results of modern linguistic science;
- (b) to advanced undergraduates and graduate students in such fields as English, Modern and Classical Languages, Anthropology, Philosophy, Psychology, and Sociology who may wish to combine the study of Linguistics with their major subject; and
- (c) to others such as museum and library staff, civil servants, and missionaries to whom a knowledge of linguistics is of value.

The following courses, described elsewhere in this Announcement, will be offered. All of these courses may be taken for University credit.

Classics 114Su—Comparative Classical Philology  
 Education 438—Teaching English as a Second Language  
 English 70—A History of the English Language  
 English 91—Modern English Grammar  
 English 92—Linguistic Geography and Lexicography  
 French 59—Semantics and Translation Theory and Practice  
 Linguistics 50—General Linguistics  
 Linguistics 51(a)—Phonetics and Phonemics  
 Linguistics 51(b)—Morphology and Syntax  
 Linguistics 51(c)—English Phonetics  
 Linguistics 51(d)—French Phonetics  
 Linguistics 57—Eskimo Language and Culture  
 Linguistics 59—Introduction to Slavonic Linguistics

**Note:** Linguistics 51(a), (b), (c) and (d) are half-courses.

Regulations concerning admission, registration, fees, pre-session study and examinations are the same as those for other courses offered in the Summer Session and may be found in the General Section of this Announcement.

A brochure giving full details concerning the Summer School of Linguistics is available on request from the Summer Session office. Additional information may be obtained from Dr. Ernest Reinhold, Director, Summer School of Linguistics, University of Alberta, Edmonton, Alberta, Canada.

## SUMMER INSTITUTE FOR MODERN MATHEMATICS

In cooperation with the Canadian Mathematical Congress and the Alberta Department of Education, the University of Alberta will conduct a Summer Institute for Modern Mathematics coincident with the regular Summer Session.

The following two courses, described in more detail elsewhere in this Announcement, will be offered, and may be taken for University credit.

Mathematics 49—Elementary Mathematics from an Advanced Point of View.

Mathematics 54—Introduction to Modern Algebra.

These courses will be under the general direction of Dr. Richard V. Andree, who will himself teach Mathematics 54. Dr. Andree is Associate Professor of Mathematics and Associate Director of the Computer Laboratory at the University of Oklahoma. He has participated in six different summer and year-long institutes for teachers of Mathematics in the United States, and is much in demand as a speaker at Mathematics meetings throughout the country. The course in Mathematics 49 will be given by Dr. Max Wyman, Professor of Mathematics at the University of Alberta.

Generous financial assistance will be available to students selected to take the courses. Registration will be limited to fifty students, who will be required to take both courses. Preference will be given to teachers of Mathematics who hold at least a Bachelor's degree and who because of their experience, rank, and geographical location are strategically located to exert an influence on the teaching of Mathematics in Alberta schools.

Regulations concerning admission, registration, fees, pre-session study and examinations are the same as those for other courses offered in the Summer Session and may be found in the General Section of this Announcement.

A brochure giving full details concerning the Summer Institute for Modern Mathematics is available on request from the Summer Session office. Additional information may be obtained from Dr. E. S. Keeping, Director, Summer Institute for Modern Mathematics, University of Alberta, Edmonton, Alberta, Canada.

## DETAILS OF COURSES

### Notes:—

1. The University reserves the right to restrict registration in, or to withdraw, any of the courses here outlined.
2. The number of hours of instruction per week is shown at the top of each course description. The first figure in a set of two indicates lecture-hours; the second, laboratory hours. The letter "L" attached to a single figure signifies lecture-laboratory hours.
3. The following symbols are used to identify certain categories of courses:
  - \*—Arts and Science courses.
  - ‡—Courses which students in the Faculty of Education may elect in lieu of Arts and Science courses.
  - †—Laboratory courses. Students who register in these courses will be assessed an additional laboratory fee of \$5.00 per course.
  - §—Courses open only to students registered in the Emergency Teacher Training Program.

### ‡†Art 35 (formerly 43)—Principles of Design and Composition (20L)

E. N. YATES AND DORENA FLEWELLING

The study and practical application of the principles of composition and picture-making, methods of construction in design, and use of the conventional and abstract forms.

NOTE: This course will be offered in two sections scheduled for different hours. (See timetable).

### \*Art 51—Art History and Appreciation (10-0)

CAROL FELDSTED

A general survey of architecture, painting and sculpture and minor arts in the following periods: Primitive, Egyptian, Greek, Etruscan, Roman, Byzantine, Celtic, Romanesque, Gothic and Italian Renaissance.

Analysis of compositions by the great masters of the various schools of painting.

### \*†Art 53—Pictorial Composition (20L)

J. B. TAYLOR

Analysis of master compositions from the various schools of painting; theory and practice in arranging forms, both in the two-dimensional and in space; exercises in figure grouping; conventional treatment of natural forms for decorative painting; use of various techniques.

Prerequisite: Art 40 (for Arts and Science students), Art 35 (for Education students).

### \*†Botany 1a, 1b.—General Elementary Botany (10-12)

H. J. BRODIE AND J. H. WHYTE

First Term: Basic features of plant growth, structure and reproduction. Special reference to plants of economic importance. Relation of plant life to human welfare. Brief survey of plant kingdom.

Second Term: Survey of structure, life-cycles and evolution of all major groups of the plant kingdom. Biological interdependence of selected plant groups.

NOTE: All students except those in Agriculture and Pharmacy must complete Botany 1b to obtain credit for the course.

**\*†Botany 51—Plant Anatomy and Histology** (10-12)

R. G. H. CORMACK

A course in the structure and development of organs and tissues of the higher plants. Emphasis is placed on the experimental approach to anatomical studies and on the environmental and physiological control of development and morphology.

Prerequisite: Botany 1a and 1b, or Botany 5, or permission of the instructor.

**\*†Chemistry 1 or A—General Chemistry** (10-12)

R. G. McCREADY

Lectures: An elementary introduction to chemistry, illustrated by the chemistry of metals, non-metals, and carbon compounds.

Laboratory: Experiments related to the lecture material.

NOTE: Students requiring Chemistry in order to complete matriculation requirements should register in Chemistry A. Only students who have clear matriculation, but lack credit in Grade XII Chemistry, may register in Chemistry 1 for degree credit.

**\*†Chemistry 42—Organic Chemistry** (10-12)

K. L. RINEHART

Lectures: An introduction to a study of the compounds of carbon.

Laboratory: The preparation of some organic compounds.

Prerequisite: Chem. 1 or 35 or 36 or 40.

**\*†Chemistry 53—Elementary Physical Chemistry** (10-12)

S. G. DAVIS

Lectures: Fundamental concepts of matter in relation to energy; thermochemistry; properties of gases, liquids and solids; solutions; equilibrium; phase rule; electrochemistry; colloids.

Laboratory: Physical-chemical measurements.

Prerequisites: Chemistry 35 or 36 or 40; Physics 35 or 36 or 40 or 41; Mathematics 1 or 5.

**\*Christian Apologetics** (10-0)

BROTHER ALOYSIUS

A doctrinal and apologetical treatment of the key teachings of Christianity; a survey of the New Testament, the History of the Church, and the Encyclicals. (This course is an option from Division B for Roman Catholic students.)

**\*Classics 52—History of Ancient Greece: The Influence of the Greek Genius on the Western World** (10-0)

MARGERY MACKENZIE

The story of the Hellenic world from its beginnings in the Minoan-Mycenaean civilizations of Crete and Greece until the time of Alexander the Great with special attention to the political organization of the city-state and the



beginnings of democracy, and to cultural and economic development. Illustrated by slides.

**\*Classics 114Su—Comparative Classical Philology (10-0)**

MARGERY MACKENZIE

An introduction to the study of the Indo-European language groups with particular reference to Greek and Latin. Special attention will be given to phonology, etymology, semantics and morphology, and the comparative syntax of Greek and Latin. A reasonable knowledge of one of Greek or Latin is essential.

**\*†Drama 35—Elementary Acting and Stagecraft (10-10)**

F. BUECKERT AND J. RIVET

(a) Acting: Practical and theoretical improvizations, stage performance and discussion. Emphasis is placed on the development of the actor through preparation for a role, acting scenes, and basic speech and body work. Elementary makeup.

(b) Stagecraft: Construction and painting of scenery; lighting; costumes; some reference to design.

**\*Drama 40—Voice and Speech (10-0)**

MRS. FREDA DE BRANSCOVILLE

This is an introductory course in speech with emphasis upon oral interpretation. The first part of the course will be devoted to a discussion of the importance of our spoken language, a study of the vocal mechanism and causes of poor phonation, and practice in the proper production of voice and speech. The second part will be concerned with the expression of personality through speech, audience psychology, oral interpretation and practice. Some reference will be made to other speech situations.

**\*Drama 52—The Modern Theatre 10 hrs.**

F. BUECKERT

The development of the modern theatre from Ibsen to the present day. The aesthetics of the theatre. Some outside reading will be assigned including the reading of plays and critical essays.

**\*Economics 1—Principles of Economics (10-0)**

G. K. GOUNDREY

A general introduction to the study of the tendencies underlying the wealth-getting and wealth-using activities of man.

(Prerequisite for all senior courses except Economics 61 and 65.)

**\*Economics 61—Canadian Economic Development (10-0)**

J. SHERBANIUK

An examination of the development of the Canadian economy, with special emphasis on the period since Confederation. (Open to all senior students.)

**†Education 34—Music (10-5)**

H. B. BARNETT

Open to Education students without music training adequate for admission to Music 35. Voice production, sight reading, ear training, rudiments of music, music history. Introduction to form. Instruments of the orchestra.

**Education 100—Introduction to Education (10-0)**

R. J. CLINTON

An introductory course in education stressing the historical and sociological approaches to educational problems. Some attention will be given to basic procedures and methods.

**§Education 138—English (10-0)**

MAIMIE S. SIMPSON AND MRS. NORA SINCLAIR

Varied activities to develop the students' oral and written language; a study of poetry, prose and drama to broaden the students' background, to give them a deeper appreciation of literature, and to serve as standards for their own creative writing.

**†Education 142B—Woodwork (20L)**

N. STRATICHUK

Care, adjustment and repair of hand tools. Basic tool procedures involving instruction and practice in the use of all commonly used hand tools. Wood finishing; application of the elementary types of finishes, paints, stain and varnish, enamel, etc.

**§Education 151—Art (5-0)**

J. E. SIMPSON

This is an introductory course which aims to awaken in the student an appreciation of the possibilities of art training in his present social environment, as well as its value in elementary school education. The course will offer fundamental art experiences which anticipate the obvious needs of teachers. Emphasis will be placed upon drawing, composition, color and the various media suitable for school use.

**§Education 159Su—Discussion of Classroom Problems (5-0)**

N. M. PURVIS

(Restricted to students in the third session of the Emergency Teacher Training Program.)

**Education 224—Speech in the Elementary School (10-0)**

INSTRUCTOR TO BE ANNOUNCED

The basic elements of speech and listening; application of speech and listening in discussions, choral speech, story telling, radio speaking, and interpretive reading; the consideration of special speech problems of teachers and pupils.

**†Education 242C—Industrial Arts—Electricity (20L)**

K. E. BROWN

Electron theory; sources of electrical energy; electrical units; electrical circuits; Ohms Law; Canadian Electrical Code; electro-magnetic induction; Lenz's Law; electrical instruments; direct current motors and generators.

**†Education 246—Teaching of Typewriting (20L)**

C. HOLLINGSWORTH

This course is designed to offer instruction in the pedagogical aspects of teaching typewriting to others, to provide an understanding of the curricu-

lum in typewriting in the secondary school, and to develop basic competency in typewriting. Open to students not eligible for admission to Education 346.

†**Education 248—Teaching of Shorthand** (20L)

C. T. DE TRO

This course is designed to offer instruction in the pedagogical aspects of teaching shorthand to others, to provide an understanding of the curriculum in shorthand in the secondary school, and to develop basic competency in shorthand. Open to students not eligible for admission to Education 348.

**Education 280S-Su—Education Method** (10-0)

E. BUXTON, G. BERRY, W. E. ROBINSON, M. ASQUIN  
AND S. RADOMSKY

Subject matter organization and method in the high school grades. Required of all students qualifying for the Standard S Certificate in the Summer Session. The course will be presented in sections as shown below. Each student is required to elect only one of these sections.

General Prerequisite: One year of teaching experience.

<i>Section</i>	<i>Prerequisites or Corequisites</i>
Art	Art 35.
English	English 2 or 5E.
Household	
Economics	H.Ec. 11 or 12.
Industrial Arts	Two of: Ed. 141A-241A, 142B, 242C, 242D.
Science	One science course from Division C.
Social Studies	One Division B option exclusive of Philosophy and Psychology.

NOTES:

1. Registration in Education 280S-Su will not be accepted from students who will be continuing their undergraduate studies in the winter session.
2. When registering in this course, students must indicate the Section they propose to elect. It is recommended that they elect that section which corresponds with their major or minor.
3. Students interested in Mathematics, French, Business Education or Music should, if possible, delay registration in this course until 1960, when those sections will be offered. The Drama section will be offered in 1961.

**Education 306—Enterprise Education** (10-0)

EVELYN MOORE

A course for certificated teachers. This course is designed to establish a firmer appreciation of the principles basic to the enterprise method and to assist teachers to improve their competence where deficiencies in the use of enterprise method are most apparent.

**Education 308—Guidance** (10-0)

A. A. ALDRIDGE

Basic principles and techniques of guidance; case studies, interviews, records, with emphasis on scholastic and personal guidance; introduction to the tests and measures most commonly used in guidance.

Prerequisite: Education 176 or equivalent.

**†Education 312—Audio-Visual Aids (10-5)**

D. S. HAMILTON

Theory of audio-visual aids; types of aids available for instructional purposes; principles and techniques of teaching with such aids; examination and preparation of audio-visual aids; experiences in the operation and care of specialized equipment.

**Education 316—School Libraries (10-0)**

L. D. WIEDRICK

A study of the school library and its functions, including simplified cataloguing, reference, circulation, and the care and repair of books; special emphasis on the planning and equipping of the library, principles of book selection, evaluations of books, book talks and story telling, building of a book collection and its coordination with the course of studies.

This course is especially arranged for teachers who are interested in school libraries and should be of great assistance to them in the discharge of responsibilities connected with any type of library.

**Education 322A—Reading in the Primary Grades (10-0)**

INSTRUCTOR TO BE ANNOUNCED

A course in reading instruction, including readiness for reading, development of fundamental reading abilities, selection of materials for instruction, and organization of the reading program.

**Education 322B—Reading in the Intermediate and Junior High School Grades (10-0)**

ANNIE M. McCOWEN

A course in reading instruction, stressing the organization and content of the basic reading program in the senior elementary grades, special reading problems in the content subjects of the junior high school, individualized instruction at all levels and the selection of reading materials.

**Education 324—Expressional Activities for the Primary Grades (10-0)**

MAISIE WHEATLEY

A course in the content and organization of the program in language, dramatization, art, music, rhythms, and play for the kindergarten and primary grades.

**Education 328—Arithmetic in the Elementary and Junior High School Grades (10-0)**

S. A. LINDSTEDT

A course in the teaching of arithmetic, including the implications of the learning process for the teaching of arithmetic; development of the program in the classroom; evaluation of learning and achievement; diagnosis and treatment of learning difficulties; and the selection of materials of instruction.

**Education 330—Science in the Elementary and Junior High School Grades (10-0)**

C. HAMPSON

A course in the teaching of science programs of the elementary and junior

high school grades; development of appropriate laboratory equipment; selection of materials of instruction; field work.

**Education 338—Language Arts in the Elementary and Junior High School Grades** (10-0)

A. G. STOREY

A course in the teaching of language arts in Grades I-IX; objectives, evaluation and instruction in oral and written English; spelling, penmanship, outlining, summarizing and note writing; diagnostic and remedial techniques; criteria for selection and placement of content. Special attention will be given to the integration of language and social studies in the junior high school grades.

**†Education 342C—Industrial Arts—Electricity** (20L)

A. LUST

Principles of alternating currents; single-phase induction motors; rectifiers; telephones; electronics; electro-magnetic waves; transformers.

Prerequisite: Education 242C.

**†Education 342D—Industrial Arts—Metal Work** (20L)

R. F. HENDERSON

Non-ferrous metals and their alloys; metallurgy; machine shop practice; forging, welding, casting and heat treating continued; advanced drill press and bench work.

**†Education 346—Teaching of Typewriting** (20L)

J. YUSEP

This course is designed to offer instruction in the pedagogical aspects of teaching typewriting to others, to provide an understanding of the curriculum in typewriting in the secondary school, and to increase competency in typewriting.

Prerequisite: Typewriting 20 of the High School with B standing or equivalent.

NOTE: Students who hold the Junior Certificate in Typewriting may register in this course provided they do not already hold credit in Education 246.

**†Education 348—Teaching of Shorthand** (20L)

J. TARANGLE

This course is designed to offer instruction in the pedagogical aspects of teaching shorthand to others, to provide an understanding of the curriculum in shorthand in the secondary schools, and to increase competency in shorthand.

Prerequisites: Typewriting and Shorthand 20 of the High School with B standing, or equivalent.

NOTE: Students who hold the Junior Certificates in Shorthand and Typewriting may register in this course provided they do not already hold credit in Education 248.

**Education 362—Educational Administration** (10-0)

J. D. AIKENHEAD

A basic course in educational administration dealing with topics of special significance to the classroom teacher. Some of the topics are: The Alberta

School System, School Law, Classroom Management, Records and Reports, Extracurricular Activities.

**\*Education 376 (476)—Educational Psychology (10-0)**

G. M. DUNLOP, D. J. CHABASSOL, B. C. MUNRO

Individual differences; psychology of learning and forgetting; motivation; personality, adjustment, and mental hygiene; introduction to evaluation and the testing program.

Prerequisite: Education 176, Psychology 40, or equivalent.

**Education 438—Teaching English as a Second Language (10-0)**

W. F. MACKEY

A course designed to acquaint teachers with approved methods of teaching English to young people and adults whose native language is not English.

NOTE: Students who register in this course are strongly advised to register concurrently in English 70 or English 91 if they do not already hold credit in one of those courses or their equivalents.

**Education 478—Measurement and Evaluation (10-0)**

C. C. ANDERSON

Measurement of classroom achievement; teacher-made and standardized tests; interpretation and use of test results; evaluation of non-academic achievement; recording and reporting pupil progress.

Prerequisite: Education 176 or equivalent.

**\*Education 492 (392)—Philosophy of Education (10-0)**

E. W. KEMP

Philosophical bases of education, with particular reference to values, aims, curriculum, and the educative process.

Prerequisite: Philosophy 40, 52, 54, or 61. Philosophy 44 or 56 may be substituted by Roman Catholic students.

**Education 500—Education Seminar**

G. L. MOWAT AND OTHERS

Reports and discussion by staff and graduate students to provide candidates for advanced degrees with experience in the selection and evaluation of research problems and procedures. The seminar will be offered as arranged. No course credit will be given.

**Education 502—Introduction to Educational Research (10-0)**

D. B. BLACK

An introduction to quantitative and non-quantitative research; the applications of elementary statistics to the collection and analysis of data.

**Education 514—Educational Sociology (10-0)**

B. Y. CARD

A study of the school as a functioning institution in society with special attention to the status and role of school personnel, school group dynamics and control, and the educational implications of current trends in family living, social stratification, ethnic group relations, government, economics, and religion.



**Education 518—Problems in Remedial Reading** (10-0)

MRS. MARION JENKINSON

The problems of the auditory, visual, neurological, perceptual, mental and emotional factors which contribute to reading disability. Techniques of remediation related to the specific disability and to the deficiencies in four aspects of reading, word recognition, vocabulary, comprehension, and rate of reading, as these apply to elementary, high school or college remedial problems.

This course is designed for reading supervisors and consultants, specialist teachers and tutors.

**Education 526—Educational Supervision** (10-0)

S. A. EARL

The principles, problems and procedures of democratic educational supervision. The following will be included: the function of the supervisor; personnel administration; the development and maintenance of morale; group processes and staff meetings; studying and improving the teaching learning situation; evaluating the objectives, methods and outcomes of the educational process; special problems of the supervisor arising from departmentalization in the high school, and from the enterprise in elementary schools.

**Education 528—Psychology and Supervision of Arithmetic** (10-0)

D. CRAWFORD

This course deals with the nature of number thinking, how it developed into the systematic subject of arithmetic, what it requires of pupils to acquire it, the success and failures of pupils, and the responsibilities of teachers and supervisors as directors of the learning activities of pupils.

Prerequisite: Education 328, or permission of the Dean.

**Education 560—Administration of Public Education in Canada** (10-0)

B. THORSTEINSSON

A comparative study of the educational systems of the ten Canadian provinces, with special attention to administrative organization and control. The form, function and powers of central and local educational authorities, and their relationship to one another. Centralized versus decentralized control. School law. Educational activities of the Dominion Government. Current trends and administrative problems in Canadian education.

**Education 562—Principles of Educational Administration** (10-0)

A. W. REEVES

Administration analyzed into its major activities: planning, organizing, directing, co-ordinating and controlling. Illustrations of these activities in the field of education. Relationships of school administration to political science, law, business administration, sociology, and psychology. Importance of a guiding philosophy. Influence of democratic ideology on administrative theory and practice. Basic principles of school administration and their application to typical administrative problems.

**Education 570—Child Psychology** (10-0)

INSTRUCTOR TO BE ANNOUNCED

A systematic study of the growth, development, behavior and problems of

adjustment of children of pre-school and elementary school ages.

Prerequisite: Education 376 (476).

†**Education 574—Education Clinic** (10-10)

W. B. DOCKRELL

Training in the measurement of intelligence, achievement, interests, aptitudes and adjustment of school children. Laboratory experience in the Education Clinic in measurement, diagnosis and remedial treatment of school children.

Prerequisite: Education 376 (476) and consent of the instructor.

**Education 578—Advanced Testing and Measurement** (10-0)

R. S. MACARTHUR

The application of elementary statistics to problems of measurement and research in education. The theoretical basis of measurement of achievement, intelligence, interests, aptitude and adjustment; the examination and evaluation of group and individual tests in these areas.

Prerequisite or corequisite: Mathematics 45.

**Education 580—Principles and Practice in Curriculum Construction** (10-0)

M. L. WATTS

This course provides for the discussion of varied approaches to curriculum construction and relates and applies these specifically to the school program. The workshop activities of the course will be centred on the development of curricula in selected fields.

\***English 2—First Course in English Literature** (10-0)

A. A. RYAN AND I. C. SOWTON

A close study of representative masterpieces, with some attention to the historical development of English literature. Essays and tests on the prescribed literature will be given to afford practice in setting down ideas in good English.

Required of first-year B.A. students; open to others.

NOTE: *Owing to the fact that preliminary essays are required in English 2, registration for this course will not be accepted after February 15 except from students who are repeating it.*

Four essays will be required. The subjects will appear in the Pre-Session Study Syllabus, which will be sent to each student upon registration. The first essay must be submitted by March 15, the second by April 15, the third by May 15, and the fourth by June 15.

‡**English 54—Children's Literature** (10-0)

L. J. LOGIE

A historical and critical study of literature written for children, with attention to the interaction between children's literature and educational theory. The course will bring to the attention of prospective elementary teachers some of the world's resources in good books for children.

Prerequisite: English 2 or 5. This course is limited to B.Ed. students in the Elementary Route.

- \*English 57—Poetry and Prose of the Romantic Period** (10-0)  
 E. J. ROSE  
 Selections from Crabbe, Cowper, Burns, Blake, Wordsworth, Coleridge, Scott, Lamb, Hazlitt, De Quincey, Byron, Shelly, Keats.  
 Prerequisite: English 2 or 5.
- \*English 66—Poetry of the Victorian Period** (10-0)  
 E. W. MANDEL  
 The works of Tennyson, Browning, Arnold, and other Victorian poets.  
 Prerequisite: English 2 or 5.
- \*English 70—History of the English Language** (10-0)  
 BETTY BANDEEN  
 A descriptive history of the growth and structure of the English language from the earliest times to the present day.  
 Prerequisite: English 2 or 5.
- \*English 91—Modern English Grammar** (10-0)  
 M. H. SCARGILL  
 A survey of several approaches to the description of modern English grammar.  
 Prerequisite: English 2 or 5.
- \*English 92—Linguistic Geography and Lexicography** (10-0)  
 W. S. AVIS  
 An introduction to the dialect geography of American and Canadian English, with work on materials from Alberta and elsewhere.  
 Prerequisite: English 2 or 5.
- \*†French 1 or A** (10-5)  
 R. G. MOTUT  
 French 1 is designed to enable students entering with complete matriculation but without French to begin the study of the language in the University. French A may be offered for matriculation credit only.  
 NOTE: Students who take French 1 in the Summer Session will receive full credit for the course without being required to take a sequent course.
- \*French 2** (10-0)  
 W. A. G. McANDREW AND S. JACRÈS  
 This is an intensive course in reading modern French, French grammar and composition.  
 Prerequisite: Grade XII French or French 1.
- \*French 50—Second Year French Authors and Grammar** (10-0)  
 R. J. GREGG  
 A senior course for those whose program allows them only two French courses and who do not want an intensive study of one period of literature. The course consists of a general review of grammar, a rapid survey of French literature, study of several representative French authors, oral and composition work based on the texts read.  
 Prerequisite: French 2 or a first-class mark in French 1.

**\*French 59—Semantics and Translation Theory and Practice (10-0)**

J. DARBELNET

Semantics and the problem of the transfer of meaning from one language to another. Systematic comparison of the stylistic resources of English and French. Exercises in translation selected from modern literary, scientific and political publications.

**\*French 64—Seventeenth Century (10-0)**

GERMAINE L'ABBÉ

This course consists of a study of the literature and society of the seventeenth century in France. The classical theatre: Corneille, Molière, Racine; the novel; Descartes; Pascal; La Rochefoucauld and La Bruyère; La Fontaine. Prerequisite: One senior French course.

**\*†Geography 1—Physical Geography (10-8)**

ELEANOR HANLON

A systematic study of the origin, nature, and distribution of the natural environment. Land forms, weather and climate, vegetation, soils, water, and mineral resources will be related to each other in place. The laboratory work will complement the lectures and will include interpretation, study, and preparation of maps and charts.

NOTE: This is a C Division course.

**\*Geography 50—Human Geography (10-0)**

INSTRUCTOR TO BE ANNOUNCED

The significance of human distribution on the earth. Man's relation to the physical environment; world population problems; cultural patterns in the world; aspects of political and economic geography in selected world trouble areas; racial geography and urban geography.

Students planning on taking this course are strongly urged to precede it by Geography 1.

NOTE: This course carries senior credit as a B Division option.

**\*†German 1(a) or A—Beginners' German (10-5)**

INSTRUCTOR TO BE ANNOUNCED

This course is designed to impart, on the introductory level, an active, practical skill in the use of the spoken and written word. The oral approach will be stressed, using material from every-day life situations, easy cultural readers, slides, charts, maps, etc.

The Department's language laboratory will be used for drill purposes and will also be available to students for individual practice.

NOTES:

- (1) Students requiring German to complete matriculation requirements should register in German A. Those who have clear matriculation, but lack credit in Grade XII German, should register in German 1(a).
- (2) Students who take German 1(a) in the Summer Session will receive full credit for the course without being required to take a sequent course.

- \*History 8—Canada and the United States, 1492-1939** (10-0)  
 R. W. WINKS  
 A history of Canada and the United States, including a study of their European origins and relationships.
- \*History 10—European History** (10-0)  
 N. MACLEOD  
 The history of Europe from the Decline of the Roman Empire in the West to the Present.
- \*History 58—Canadian History** (10-0)  
 INSTRUCTOR TO BE ANNOUNCED  
 The social and political history of Canada.
- \*History 60—American History** (10-0)  
 W. H. STEPHENSON  
 A survey including the colonial period.
- \*History 62—History of Russia** (10-0)  
 R. A. PIERCE
- \*History 79—British History** (10-0)  
 B. B. GILBERT  
 British history from the accession of the Hanoverians to the present.
- \*History 74—European History** (10-0)  
 BROTHER AUSTIN  
 The history of Europe from the First Crusade to the residence of the Popes at Avignon, 1095-1305.  
 (This course is offered by St. Joseph's College and is accepted as a senior B option.)
- ‡‡Household Economics 11—Foods** (10-15)  
 MARGARET CAMPION  
 An elementary study of the composition and nutritive value of foods, with laboratory practice in food preparation, meal planning and service.
- ‡‡Household Economics 12—Textiles and Clothing** (10-15)  
 MARJORIE JENKINS  
 A study of sources, properties and manufacture of fabrics; their uses and care. The selection of costume for suitability to types and to the individual. The use of the commercial pattern in garment construction with emphasis on sewing techniques which apply to specific fabrics and designs.
- ‡‡Household Economics 44Su—Nutrition and Economics of the Household** (10-15)  
 MRS. FLORENCE WILSON  
 (a) Nutrition—The principles of nutrition applied to the feeding of the family.  
 ((b) Economics of the Household—The history of family life; family relationships; standards of living; household production; the income and its expenditure; budgets; consumer education.  
 Prerequisite: H.Ec. 11.

**‡†Household Economics 46Su—Advanced Clothing (10-15)**

DOROTHY STOFLET

The study of historic and contemporary costume design. The development of the foundation pattern. Flat pattern designing for selected garments and construction in appropriate fabrics.

Prerequisite: H.Ec. 12.

**\*‡Latin 1 or A—Beginners' Latin (15-0)**

E. C. MAY

Essentials of grammar, syntax, the reading of easy Latin, and prose composition. A secondary emphasis is placed on the connection of Latin with English.

NOTES:

- (1) Students requiring Latin to complete matriculation requirements should register in Latin A. Those who have clear matriculation, but lack credit in Grade XII Latin, should register in Latin 1.
- (2) Students who take Latin 1 in the Summer Session will receive full credit for the course without being required to take a sequent course.

**\*Linguistics 50—General Linguistics (10-0)**

E. REINHOLD

An introduction to and a survey of the field of language and languages dealing with the fundamentals of structural and historical linguistics. Topics discussed include language families, types of languages, linguistic change, linguistic structure. Emphasis will be placed on modern European languages.

**\*Linguistics 51(a)—Phonetics and Phonemics (5-0)**

S. E. MARTIN

A study of the speech organs and of speech production. Types of speech sounds. Phonetic analysis and transcription. Phonemic theory and analysis. Corequisite: Linguistics 51(b), 51(c), or 51(d).

**\*Linguistics 51(b)—Morphology and Syntax (5-0)**

S. E. MARTIN

Methods of grammatical analysis stressing the identification and analysis of the morphological and syntactic units of a language. Underlying theory. Examples will be taken from European and Amerindian languages.

Pre- or corequisite: Linguistics 51(a).

**\*Linguistics 51(c)—English Phonetics (5-0)**

W. S. AVIS

A descriptive study of the pronunciation of English with special attention to Canadian English. Practical work in oral recognition and phonetic notation. The phonemes of English.

Pre- or corequisite: Linguistics 51(a).

**\*Linguistics 51(d)—French Phonetics (5-0)**

R. J. GREGG

An analytical description of the sounds of French. Drill in oral recognition and phonetic transcription. Application of phonetic and phonemic studies to the teaching of French.

Pre- or corequisite: Linguistics 51(a).



**\*Linguistics 57—Eskimo Language and Culture (10-0)**

INSTRUCTOR TO BE ANNOUNCED

A descriptive study of the sounds and structure of Eskimo. Intensive drill of basic patterns. Native informants and recorded material will be available. Introduction to field methods in linguistics and to Eskimo culture.

Pre- or corequisites: Linguistics 51 (a) and 51 (b) or consent of the instructor.

**\*Linguistics 59—Introduction to Slavonic Linguistics (10-0)**

B. PLASKACZ

An introduction to the languages of the Slavonic peoples. The study will cover Proto-Slavonic, Old Church-Slavonic and the Modern Slavonic languages with special attention to their common features and their differences.

**\*†Mathematics 5—Elementary Mathematics (10-10)**

L. G. HOYE

Plane trigonometry. Solution of triangles. Trigonometrical identities and equations. Rates of change. Differentiation and integration of simple functions. Applications. Analytic geometry of the conic sections. Exponential, logarithmic and trigonometric functions.

Prerequisite: Mathematics 30 of high school. (Mathematics 31 *not* required.)

NOTE: This course is intended for students who wish to have a basic course in Mathematics which will be acceptable as a prerequisite for Mathematics 40.

**\*†Mathematics 40—Calculus and Analytical Geometry (10-5)**

I. CHORNEYKO

Polar and parametric coordinates. Methods and applications of integration. Series. Vectors and space geometry. Partial differentiation. Complex numbers. Multiple integrals. Elements of differential equations.

Prerequisite: Mathematics 1 or 5.

**\*Mathematics 43—Theory of Finance (10-0)**

T. FOSTVEDT

Applications of percent, interest, annuities certain, sinking funds, and amortizations, valuation of bonds, depreciation, life annuities and life insurance.

Prerequisite: Mathematics 30 of high school.

**\*Mathematics 49—Elementary Mathematics from an Advanced Viewpoint (10-0)**

M. WYMAN

Topics from ordinary high school algebra and geometry will be treated from the unifying point of view of modern concepts such as function, set, group, symbolic logic, the axiomatic method, and the development of a number system.

NOTE: This course is to be given in the Summer Institute for Modern Mathematics. It is designed for teachers of high school mathematics.

**\*Mathematics 51—Geometry (10-0)**

INSTRUCTOR TO BE ANNOUNCED

Various elementary concepts of space, such as euclidean, affine, projective spaces, non-euclidean geometries, etc., axiomatic treatment and models, relation to group theory.

Prerequisite or corequisite: Mathematics 40.

**\*Mathematics 54—Introduction to Modern Algebra** (10-0)

R. V. ANDREE

The nature of proof. Introduction to number theory. Boolean algebra and applications. Group theory. Matrices, determinants, and systems of linear equations. Fields, rings and ideals.

NOTE: This course is to be given in the Summer Institute for Modern Mathematics. It is intended to give an introduction to some of the more modern ideas of mathematics, adapted to the requirements of high school teachers.

**\*†Music 35 (formerly 41)—Elementary Choral Technique and General Musical Knowledge** (10-10)

G. K. GREENE

Elementary theory and practice of singing, choral technique and interpretation, sight singing and ear training. History of music. Introduction to form. Instruments of the orchestra. Assignments include prescribed listening. Records and scores are provided. Reading will be assigned, part of it related to the listening.

THEORY: The student will be required during the course to attain 80% standing on an elementary examination in notation.

LABORATORY: This will be in choral work.

NOTES:

- (1) Students registering in this course should have the following qualifications:—
  - (a) Western Board Grade IV Theory or equivalent, and
  - (b) Western Board Grade IV Pianoforte or equivalent.
- (2) Students who feel that they do not qualify for Music 35 should consider the possibility of registering in Education 34.

**\*†Music 51—Orchestral Technique and Musical Criticism** (10-10)

R. S. EATON

**(a) Orchestral Technique**

Brass and reed instruments are provided for the study of techniques relating to band and orchestral groups.

**(b) Music History and Criticism**

A study of the history of music from the earliest times to the present. Scores and recordings of music from all periods are provided. A critical evaluation of the styles of various composers is emphasized. Detailed study of musical form and analysis.

**(c) Music Laboratory**

Choral, and form laboratory.

Prerequisite: Music 35 or equivalent.

**\*Philosophy 40—History of Western Philosophy** (10-0)

S. KORNER AND E. W. KEMP

A critical survey of the chief philosophical theories which have influenced western civilization.

**\*Philosophy 44—The Philosophy of Aquinas (Previously 4)** (10-0)

BROTHER ANSELM

A critical survey of the chief philosophical theories of Aquinas: theory of

knowledge, the nature of reality, the existence and nature of God, the nature of man, and theory of education. Contemporary Thomism.

(This course is offered by St. Joseph's College for Roman Catholic Students and is accepted as a junior or senior credit. It is also available to Roman Catholic students in Education as a prerequisite to Education 492.)

**\*Philosophy 52—Social Philosophy (10-0)**

A. D. WINSPEAR

A philosophical and synoptic study of the nature of society.

**\*Philosophy 54—Ethics (10-0)**

T. M. PENELHUM

An inquiry into the nature and justification of moral standards.

**§Physical Education 101—Physical Education for Grades One to Nine (5L)**

AUDREY CARSON

An introduction to the theory and practice of physical education in the elementary and junior high school. Theory will include the purposes of physical education, mechanical principles of efficient movement, physiological principles of learning as applied to physical education, the organization of lesson plans, yearly programs, tournaments and special events such as play days. Activities will include games of low organization, lead-up games, stunts and tumbling, rhythmic, social and folk (including square) dancing, volleyball, soccer and track and field.

**Physical Education 103—Introduction to Physical Education (5-0)**

M. L. VAN VLIET

A survey of the field of physical education, with emphasis on factual information directed toward the development of a scientific program. This course will include a brief study of the history of physical education as well as underlying philosophies.

**Physical Education 109—Activity Course (5L)**

M. L. VAN VLIET

Theory, practice and teaching of rhythmic, social and folk dancing, badminton, and volleyball.

Prerequisite or corequisite: Physical Education 101.

**Physical Education 224—Activity Course (10L)**

H. J. McLACHLIN

Theory, practice and teaching of softball, archery, track and field, and soccer. Principles of officiating.

**\*†Physics 36 (formerly 41)—General Physics (10-8)**

M. T. SILLITO

A general course in the fundamentals of physics, including mechanics, properties of matter, heat, sound, electricity and light. Illustrated by experiments.

**NOTES:**

(1) This course is designed for students who hold credit in Physics of Grade

XII but who do not plan to take any senior course in physics except possibly Physics 50.

(2) Credit cannot be given for more than one of Physics 1 or 35 or 36.

**\*†Physics 42—Optics and Mechanics** (10-8)

J. H. HARROLD

Geometrical theory of optical instruments; simple wave theory of light and sound. Statics, dynamics of a particle and of a rigid body.

Prerequisites: Physics 35 or 40 or 21, and Mathematics 1 or 2 or 5.

Pre- or corequisite: Mathematics 40.

**\*†Physics 43—Light, Electricity and Magnetism** (10-8)

R. L. ALLEN

A course designed to follow Physics 35 and to give a foundation in physics suitable for work in other physical sciences. Propagation of light, lenses and optical instruments, photometry, interference and diffraction. Electrostatics, potential, capacitors, D.C. circuits, magnetism and magnetic field, electro-magnetism, induced E.M.F., self-inductance, introduction to alternating currents.

Prerequisites: Physics 21 or 35 or 40, and Mathematics 1 or 2 or 5.

Co- or prerequisite: Mathematics 40.

**\*Political Science 3—Elements of Political Science** (10-0)

MRS. MARY LOUISE HUSTON

A study of the principles and practices of modern government, with emphasis on the democratic constitutional state. Among the topics studied are the nature and theory of the state; types of constitutions; the functions and composition of the legislature, executive and judiciary; representation; political parties and pressure groups.

**\*Psychology 58—Psychology in Relation to Human Welfare** (10-0)

C. N. UHL

The applications of psychology in fields of common interest to the humanities and social sciences, with special reference to: education; child training; vocational selection; training and guidance; mental hygiene; social and industrial relations; and political-social values.

**\*†Russian 1(a)—Beginners' Russian** (10-5)

H. CHANAL

This course is elementary and is designed to give a working knowledge of the Russian language. It provides a study of the essentials of grammar, reading, and drill on useful expressions.

NOTE: Students who take Russian 1(a) in the Summer Session will receive full credit for the course without being required to take a sequent course.

**\*Sociology 40—Introductory Sociology (formerly Sociology 1 or 51)** (10-0)

INSTRUCTOR TO BE ANNOUNCED

The sociological study of society, social institutions, group behaviour, personality formation and social change.

**\*Sociology 56—The Family** (10-0)

R. L. JAMES

Structure and function of the family, comparative family systems, sociology of family life stages (such as childhood, adolescence, adulthood, old age), contemporary trends and problems of the family.

**\*Sociology 60—Minority and Ethnic Group Relations** (10-0)

S. M. STRONG

A study of the problems arising from racial and minority status. An analysis of the sources of prejudice, current theories of race and culture, and the effect of interracial and minority group contacts.

An examination of critical situations requiring adjustment and social treatment.

**‡‡Ukrainian 1—Beginners' Ukrainian** (10-5)

O. STARCHUK

This course is elementary and is designed to give a working knowledge of the Ukrainian language. It provides a study of the essentials of grammar, reading, and drill on useful expressions.

NOTE: Students who take Ukrainian 1 in the Summer Session will receive full credit for the course without being required to take a sequent course.

**‡‡Zoology 5Su—Natural History of Alberta Animals** (10-16)

V. LEWIN

Identification and natural history of the more common vertebrate and invertebrate animals found in Alberta; outline of classification; methods of collection and preservation; care of captive animals; other aspects of natural history techniques.

# TIMETABLE—1959 SUMMER SESSION SCHEDULE OF LECTURE PERIODS

8:00 a.m. to 9:45 a.m.	10:00 a.m. to 11:45 a.m.	1:00 p.m. to 2:45 p.m.	3:00 p.m. to 4:45 p.m.
Art 51 *Botany 1a, 1b *Chemistry 1 or A *Chemistry 53 Drama 40 Education 159Su— Section A: 10-10:45 Section B: 11-11:45 Education 100 Education 138 **Education 242C (8-11:45) **Education 246 (8-11:45) Education 322B Education 338 **Education 342D (8-11:45) **Education 346 (8-11:45) Education 376 Education 518 Education 560 Education 578 English 57 *French 1 or A French 2 French 50 History 8 History 10 *H.Ec. 11 *H.Ec. 12 *H.Ec. 44Su Linguistics 50 *Mathematics 40 Mathematics 54 Philosophy 44 Physical Education 224 *Physics 43 Psychology 58 *Russian 1 (a) Sociology 40 *Zoology 55u	Art 51 *Botany 51 *Chemistry 42 Classics 52 Drama 40 Education 159Su— Section A: 10-10:45 Section B: 11-11:45 Education 224 Education 280S-Su Education 330 Education 478 Education 562 Education 570 Education 580 English 2 English 66 French 64 *Geography 1 *Geography 50 *German 1(a) or A History 70 History 74 *H.Ec. 46Su Linguistics 51(a) (b) (c) (d) *Mathematics 5 Mathematics 49 Mathematics 51 Philosophy 40 Physical Education 101— Section A: 11-11:45 Section B: 10-10:45 Physical Education 103 Physical Education 109 *Physics 36 *Physics 42 *Political Science 3 Sociology 56 *Ukrainian 1	Art 35 (1-4:45): Sect. B Art 53 (1-4:45) Drama 35 (1-4:45) Economics 1 Education 34 (1-3:45) **Education 142B (1-4:45) Education 151— Section A: 1-1:45 Section B: 2-2:45 Education 248 (1-4:45) Education 308 Education 312 (1-3:45) Education 328 **Education 342C (1-4:45) Education 348 (1-4:45) Education 438 Education 492 Education 502 Education 514 (2-4 p.m.) Education 574 (1-4:45) English 54 English 92 French 59 History 62 Latin 1 or A (1-3:45) Mathematics 43 *Music 35 *Music 51 Philosophy 52 Sociology 60	Christian Apologetics Classics 114Su Education 306 Education 316 Education 322A Education 324 Education 362 Education 526 Education 528 English 70 History 58 History 60 Linguistics 57 Linguistics 59 Philosophy 54

\*Consult also the schedule of laboratory periods which appears on the next page.  
 \*\*This course will be given at Victoria Composite High School.



## SCHEDULE OF LABORATORY PERIODS

Students in laboratory courses will be advised during the first lecture period as to when laboratory work will commence.

Botany 1a, 1b-1 to 4 p.m., MTWTh.	Mathematics 5-3 to 5 p.m., daily.
Botany 51-1 to 4 p.m., MTWTh.	Mathematics 40-1 to 2 p.m., daily.
Chemistry 1 or A-1 to 4 p.m., MTWTh.	Music 35-3 to 5 p.m., daily.
Chemistry 42-1 to 4 p.m., MTWTh.	8 to 10 p.m., TTh.
Chemistry 53-1 to 4 p.m., MTWTh.	Music 51-3 to 5 p.m., daily.
French 1 or A-1 to 1:45 p.m., daily.	8 to 10 p.m., TTh.
Geography 1-1 to 5 p.m. Days to be arranged.	Physics 36-1 to 2:45 p.m., MTWTh.
German 1 or A-4 to 4:45 p.m., daily.	Physics 42-1 to 2:45 p.m., MTWTh.
H.Ec. 11-1 to 4 p.m., daily.	Physics 43-1 to 2:45 p.m., MTWTh.
H.Ec. 12-1 to 4 p.m., daily.	Russian 1(a)-2 to 2:45 p.m., daily.
H.Ec. 44Su-1 to 4 p.m., daily.	Ukrainian 1-3 to 3:45 p.m., daily.
H.Ec. 46Su-1 to 4 p.m., daily.	Zoology 5Su-1 to 5 p.m., MTWTh.



# TEXTBOOK ORDER FORM

## Summer Session, 1959

From

Address

**To: University Bookstore, Edmonton, Alberta**

Please forward the following books, for which I enclose \$.....

Course	Textbook	Price

Total

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**C.O.D. orders cannot be accepted, Make all cheques and money orders payable to the University Bookstore.**













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## Special Directory

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	Address	Telephone
President, <i>University of Alberta</i> .....	Administration Bldg., 3rd floor .....	394951
Director, <i>Summer Session</i> .....	Education Bldg., Room 214 .....	335811
	Residence: 10655 Saskatchewan Dr., .....	333475
Dean, <i>Faculty of Arts and Science</i> .....	Arts Bldg., Room 222 .....	394951
Dean, <i>Faculty of Education</i> .....	Education Bldg., Room 210 .....	335811
Dean, <i>Faculty of Graduate Studies</i> .....	Administration Bldg., 2nd floor .....	394951
Dean of Women .....	Administration Bldg., 2nd floor .....	394951
Director, <i>Student Advisory Services</i> .....	Administration Bldg., 1st floor .....	394951
Librarian .....	Rutherford Library, Room 214 .....	394951
Registrar .....	Administration Bldg., 2nd floor .....	394951
Bursar .....	Administration Bldg., 3rd floor .....	394951
Bookstore .....	Administration Bldg., 1st floor .....	394951
Infirmary .....	89 Avenue, opposite Medical Bldg. ....	331765
Post Office .....	Administration Bldg., basement .....	394951
Housing Service .....	Administration Bldg., 1st floor .....	394951



A directory of University buildings and departments will be found on page 3 of this **Announcement**.

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